

The Commonwealth of Massachusetts  
Executive Office of Health and Human Services  
Department of Public Health  
William A. Hinton State Laboratory Institute  
305 South Street, Jamaica Plain, MA 02130

DEVAL L. PATRICK  
GOVERNOR

TIMOTHY P. MURRAY  
LIEUTENANT GOVERNOR

JUDYANN BIGBY, MD  
SECRETARY

JOHN AUERBACH  
COMMISSIONER

11/18/2011

Erik Bennett  
Assistant District Attorney, Suffolk County

Dear ADA Bennett,

Enclosed is the information you requested in regards to Commonwealth vs. [REDACTED]  
Included are copies of the following:

1. Curriculum Vitae for Annie Dookhan and Daniel Renczkowski.
2. Drug Analysis Laboratory Receipt.
3. Control Cards with analytical results for samples # [REDACTED]
4. Analysis sheets with custodial chemist's hand notations and test results.
5. GC/Mass Spectral analytical data for samples # [REDACTED]

Annie Dookhan was the custodial chemist and performed the preliminary testing and net weight for this sample. Daniel Renczkowski was the confirmatory chemist and analyzed the GC/MS data for this sample.

If you have any questions about these materials, please call me at the number below.

Sincerely,

A handwritten signature in black ink, appearing to read "Annie Dookhan".  
Annie Dookhan  
Chemist  
Drug Analysis Lab  
Jamaica Plain, MA. 02130  
(617) 983-6622

## Curriculum Vitae

### Annie Khan (Dookhan)

#### **Education:**

University of Massachusetts, Boston, Ma, Master of Science in Chemistry.  
University of Massachusetts, Boston, Ma, Bachelor of Science in Biochemistry.

#### **Experience:**

2003 – present

#### Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory

\*Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.

\*Appointed Assistant Analyst by Assistant Commissioner of Public Health, 2004.

\*Responsible for the identification of illicit drugs to determine violations of harmful and narcotic drug laws.

\*Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.

\*Maintenance and repairs of all analytical instruments.

\*Responsible for the Quality Control of all analytical instruments, reagents and controls/standards.

\* Responsible for the Quality Control/Quality Assurance program for the drug lab.

\*Notary Public.

\*Qualified as an expert witness in Massachusetts Courts and U.S. District Court

2001 – 2003

#### QC Analyst I, II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

\*Completed proficiency training conducted by a member of the staff within the MLB Quality Control and Quality Assurance Department.

\*Method Development for creating new techniques and enhancing vaccines for the QC Dept. and FDA.

\*Writing, revising and reviewing Standard Operating Procedures (SOPs).

\*Trained and supervised new chemists and interns for the department.

\*Routine QC testing of products for the FDA.

\*Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.

\*Calibration, preventive maintenance, QC and QA of analytical instrumentation.

\*Complete testing of chemicals for Vendor Validation Project for the FDA.

\*Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

#### **Additional Training:**

Dept. of Justice – Forensics Professionals. (numerous trainings)

GLP/GMP course with Massachusetts Biologic Laboratory.

QC/QA training according to FDA Codes and Regulations.

GC and GC/MS courses with Agilent Technologies and Restek.

HPLC course with Waters Cooperation.

FTIR course with Spectros.

TOC training with MBL and Sievers.

#### **Association:**

American Chemical Society (ACS)

Northeastern Association of Forensics Science (NEAFS)

## Curriculum Vitae

Daniel Renczkowski

### Education

Degree: Bachelors of Science in Forensic Chemistry,  
May 2005 from Buffalo State College  
GPA: 3.84, Dean's List, Honor's Recognition  
American Chemical Society Undergraduate Award  
Phi Lambda Upsilon Membership

|                     |                             |                        |
|---------------------|-----------------------------|------------------------|
| Related Coursework: | Analytical Chemistry        | Physical Chemistry     |
|                     | Organic Chemistry I and II  | Instrumental Chemistry |
|                     | Biochemistry                | Forensics Laboratory   |
|                     | Chemistry of Criminalistics | Physical Evidence      |
|                     | Anatomy                     | Physiology             |

### Employment

Massachusetts Department of Public Health Drug Analysis Laboratory  
Chemist I (October 2005 – March 2008)  
Chemist II (March 2008 – present)  
-Successfully completed an eight week training course in the analysis of drugs conducted by senior staff  
-Successfully completed GC/MS training program  
-Responsible for the identification of substances to determine violation of the Controlled Substances Act of the Massachusetts General Laws  
-Responsible for maintenance and repairs of analytical instruments  
-Responsible for quality control of analytical instruments and standards

### Related Experience

Niagara County Forensics Laboratory  
Forensic Internship, January 2005  
-Conducted research on the presumptive testing of saliva  
-Conducted research on the identification and detection of lubricants  
-Observed all aspects of the laboratory including drug analysis, firearms comparison, trace evidence, arson investigation, toxicology, and serology  
-Daily use of FTIR microscope and DuraSamplerII  
-Familiarized with GC/MS programs



## DRUG RECEIPT

CC # \_\_\_\_\_  
BOOK # 30  
PAGE # 71  
DESTRUCTION # \_\_\_\_\_

District/Unit H7 DGN

Name & Rank of Arresting Officer Det. J. McCarthy ID# 11715

**To be completed by ECU personnel only**

Name and Rank of Submitting Officer John P. O'Neil ID# 1315

Received by John Date 10/3/90

Date 10-3-70

No. [REDACTED] Date Analyzed: 10-30-10  
City: Boston D.C.U. Police Dept.  
Officer: P.O. Diana Lopez  
Def: [REDACTED]  
Amount: Subst: SUB  
No. Cont: 1 Cont: napkin  
Date Rec'd: 10/05/2010 No. Analyzed:  
Gross Wt.: 6.09 Net Weight: 0.10  
# Tests: 6 250  
• 2 DJR

Prelim: Cocaine (C) Findings: Cocaine

No. [REDACTED] Date Analyzed: 10-30-10  
City: Boston D.C.U. Police Dept.  
Officer: P.O. Diana Lopez  
Def: [REDACTED]  
Amount: Subst: BRKN TAB  
No. Cont: 1 Cont: napkin  
Date Rec'd: 10/05/2010 No. Analyzed:  
Gross Wt.: 7.67 Net Weight: 1.38  
# Tests: 6 250  
• 2 DJR

Prelim: Buprenorphine Findings: Buprenorphine B

# DRUG POWDER ANALYSIS FORM

SAMPLE # XXXXXXXXXX AGENCY Boston ANALYST A52

No. of samples tested: \_\_\_\_\_ Evidence Wt. \_\_\_\_\_

PHYSICAL DESCRIPTION: Gross Wt ( ): 2.1826

OFF white shiny substance  
in 1 napkin

Gross Wt ( ): \_\_\_\_\_

Pkg. Wt: \_\_\_\_\_

Net Wt: 0.1061

## PRELIMINARY TESTS

### Spot Tests

Cobalt  
Thiocyanate ( - ) +

Marquis -

Froehde's -

Mecke's -

### Microcrystalline Tests

Gold  
Chloride +

TLTA ( - ) +

### OTHER TESTS

## PRELIMINARY TEST RESULTS

RESULTS cocaine

DATE 12-28-10

## GC/MS CONFIRMATORY TEST

RESULTS cocaine

MS  
OPERATOR DJR

DATE 12-30-10

# DRUG POWDER ANALYSIS FORM

SAMPLE # XXXXXXXXXX AGENCY Boston ANALYST ADJ

No. of samples tested: \_\_\_\_\_ Evidence Wt. \_\_\_\_\_

PHYSICAL DESCRIPTION: Gross Wt ( ): \_\_\_\_\_

2 orange bouclat net  
17-85

Gross Wt ( ): \_\_\_\_\_

Pkg. Wt: \_\_\_\_\_

Net Wt: 1.386g

## PRELIMINARY TESTS

### Spot Tests

Cobalt  
Thiocyanate ( ) -

### Microcrystalline Tests

Gold  
Chloride \_\_\_\_\_

Marquis Purple

TLTA ( )

Froehde's Purple

### OTHER TESTS

Mecke's -

Dilute = -

GC = +

## PRELIMINARY TEST RESULTS

RESULTS Buprenorphine

DATE 12-28-10

## GC/MS CONFIRMATORY TEST

RESULTS Buprenorphine

MS  
OPERATOR DSR

DATE 12-30-10

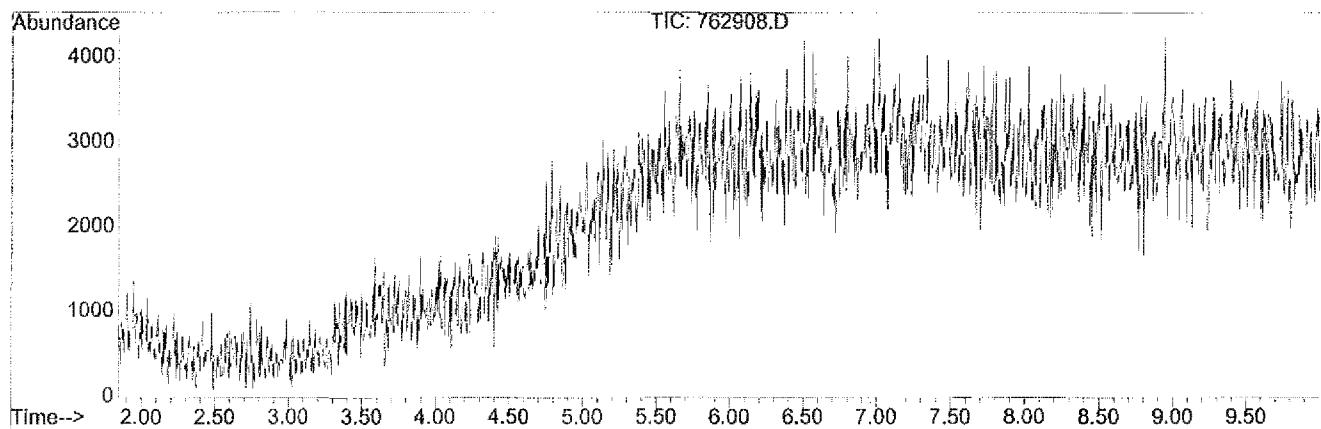
# Area Percent / Library Search Report

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Operator : DJR  
Date Acquired : 29 Dec 2010 13:07  
Sample Name : BLANK  
Submitted by :  
Vial Number : 1  
AcquisitionMeth: DRUGS  
Integrator : RTE

✓DJR  
11-14-11



| Ret. Time | Area | Area % | Ratio % |
|-----------|------|--------|---------|
|-----------|------|--------|---------|

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\*\*\*NO INTEGRATED PEAKS\*\*\*

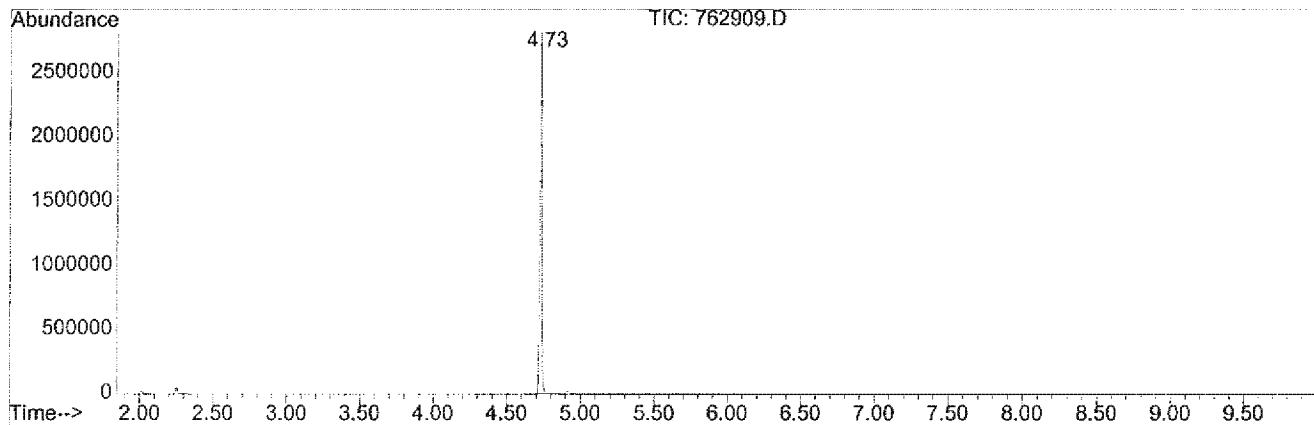
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## Information from Data File:

File Name : F:\Q4-2010\SYSTEM4\12\_29\_10\762909.D  
Operator : DJR  
Date Acquired : 29 Dec 2010 13:21  
Sample Name : COCAINE STD  
Submitted by :  
Vial Number : 9  
AcquisitionMeth: DRUGS  
Integrator : RTE

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| Ret. Time | Area    | Area % | Ratio % |
|-----------|---------|--------|---------|
| 4.726     | 2732253 | 100.00 | 100.00  |

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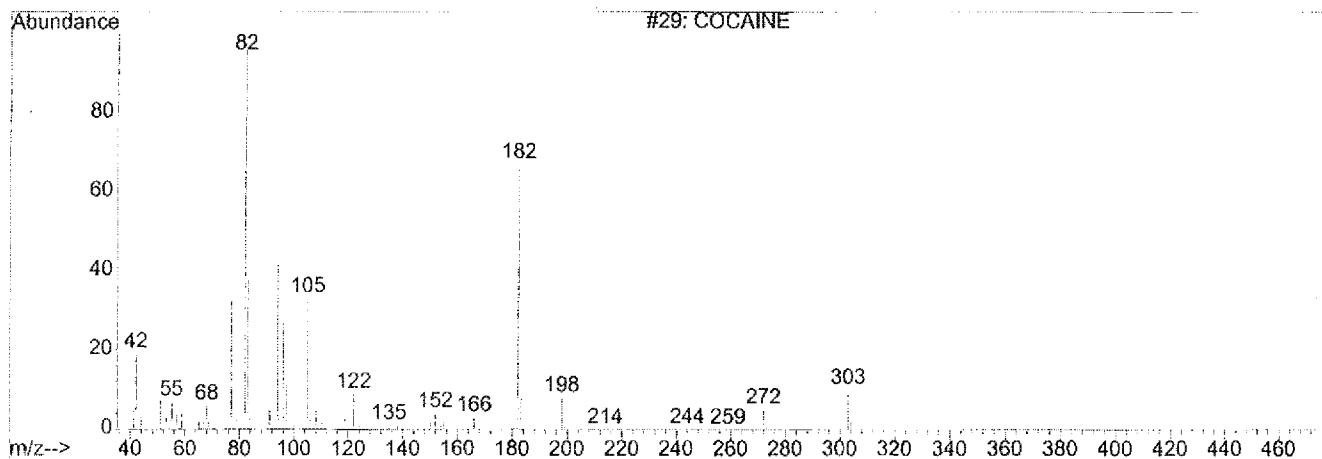
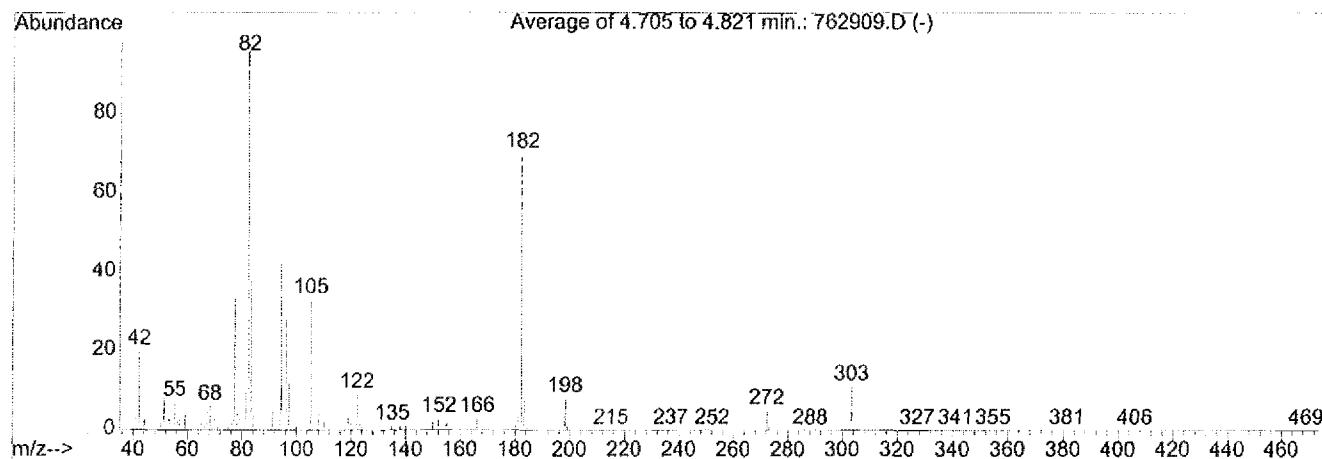
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**Information from Data File:**

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Operator : DJR  
Date Acquired : 29 Dec 2010 13:21  
Sample Name : COCAINE STD  
Submitted by :  
Vial Number : 9  
AcquisitionMeth: DRUGS  
Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90  
C:\DATABASE\PMW\_TOX2.L Minimum Quality: 90  
C:\DATABASE\NIST98.L

| PK# | RT   | Library/ID                   | CAS#        | Qual |
|-----|------|------------------------------|-------------|------|
| 1   | 4.73 | C:\DATABASE\SLI.L<br>COCAINE | 000050-36-2 | 99   |



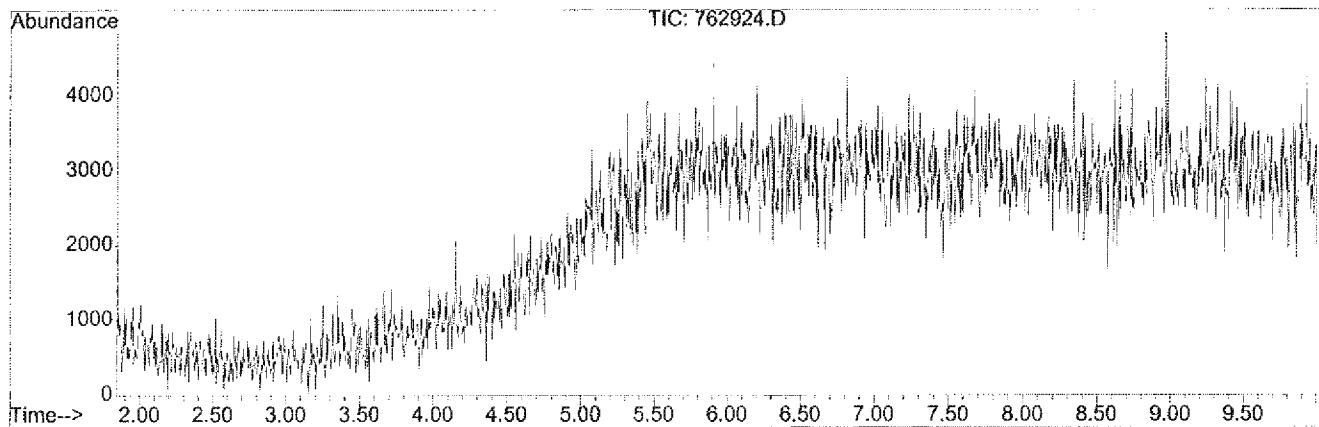
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Operator : DJR  
Date Acquired : 29 Dec 2010 16:46  
Sample Name : BLANK  
Submitted by : ASD  
Vial Number : 1  
AcquisitionMeth: DRUGS  
Integrator : RTE

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| Ret. Time | Area | Area % | Ratio % |
|-----------|------|--------|---------|
|-----------|------|--------|---------|

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\*\*\*NO INTEGRATED PEAKS\*\*\*

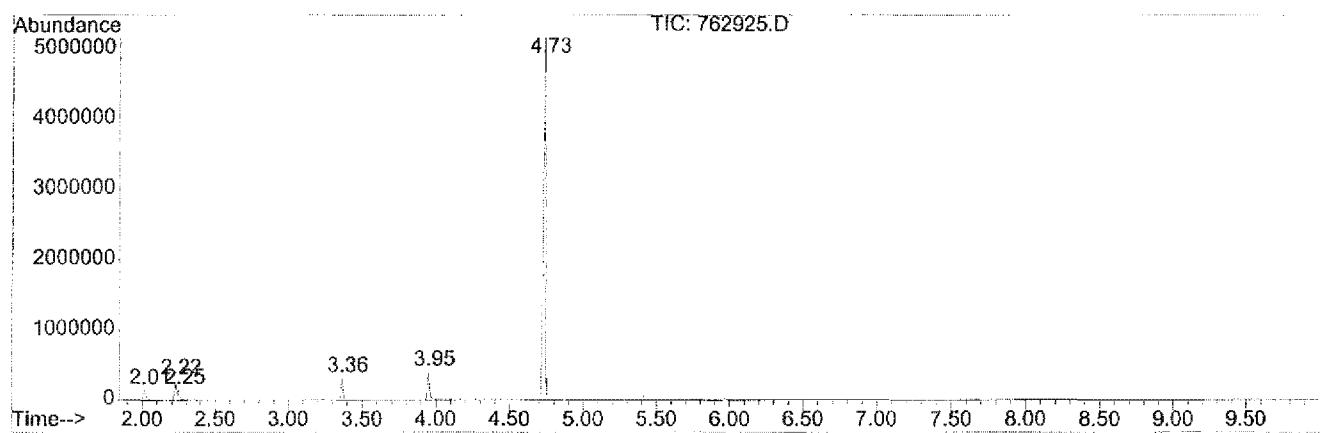
# Area Percent / Library Search Report

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Operator : DJR  
Date Acquired : 29 Dec 2010 17:00  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 25  
AcquisitionMeth: DRUGS  
Integrator : RTE

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| Ret. Time | Area    | Area % | Ratio % |
|-----------|---------|--------|---------|
| 2.013     | 185814  | 2.64   | 3.26    |
| 2.225     | 288058  | 4.10   | 5.05    |
| 2.251     | 126941  | 1.80   | 2.22    |
| 3.362     | 305037  | 4.34   | 5.35    |
| 3.949     | 421800  | 6.00   | 7.39    |
| 4.732     | 5706192 | 81.12  | 100.00  |

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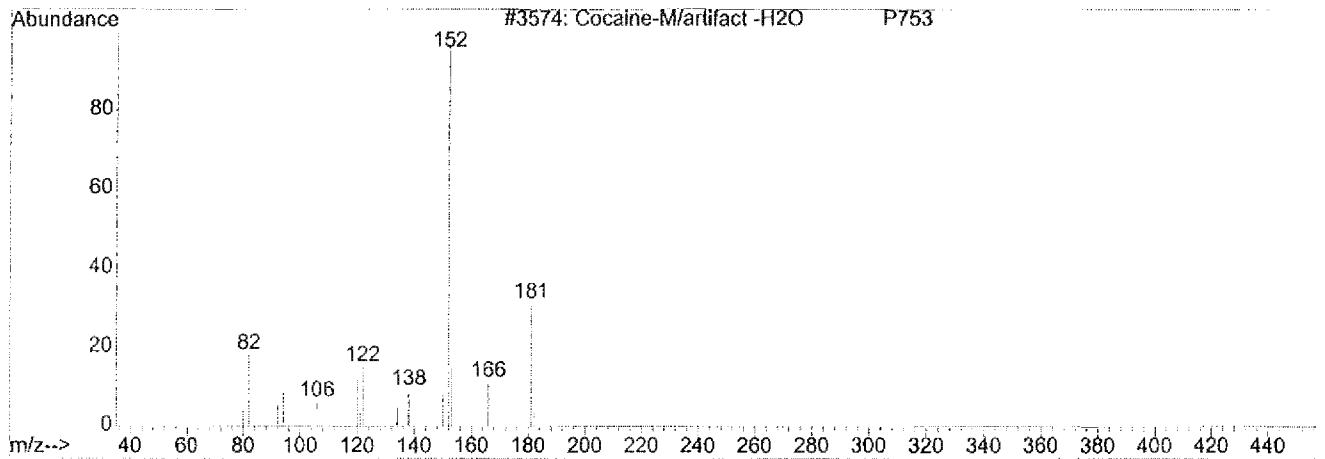
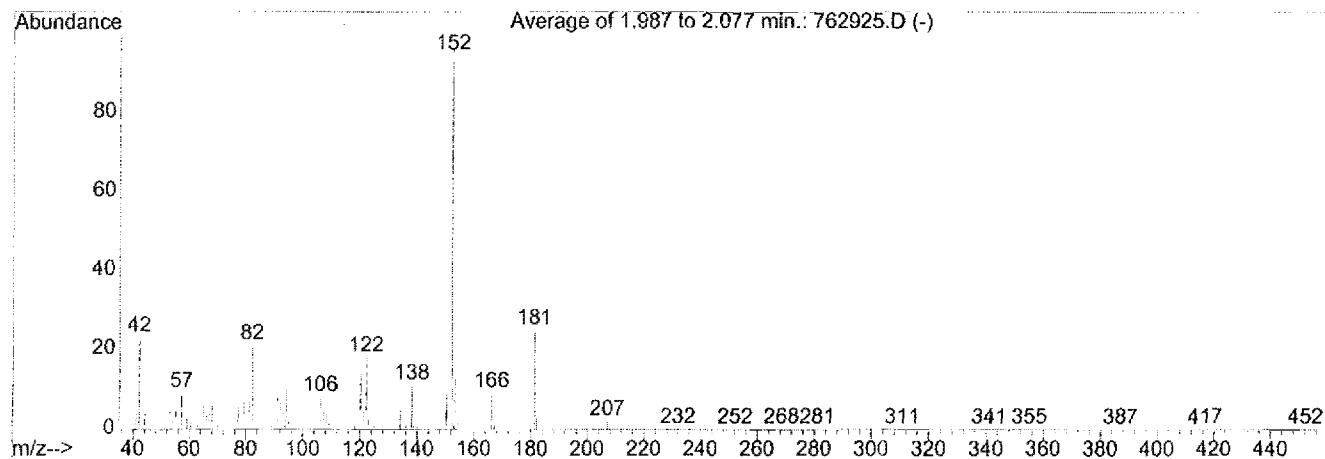
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Operator : DJR  
Date Acquired : 29 Dec 2010 17:00  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 25  
AcquisitionMeth: DRUGS  
Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90  
C:\DATABASE\PMW\_TOX2.L Minimum Quality: 90  
C:\DATABASE\NIST98.L

| PK# | RT   | Library/ID                       | CAS#          | Qual |
|-----|------|----------------------------------|---------------|------|
| 1   | 2.01 | C:\DATABASE\PMW_TOX2.L           |               |      |
|     |      | Cocaine-M/artifact -H2O          | 000000-00-0   | 97   |
|     |      | MDA-M (desmethylenyl-methyl-) ME | @ 000000-00-0 | 38   |
|     |      | Vanillin AC                      | 000000-00-0   | 23   |



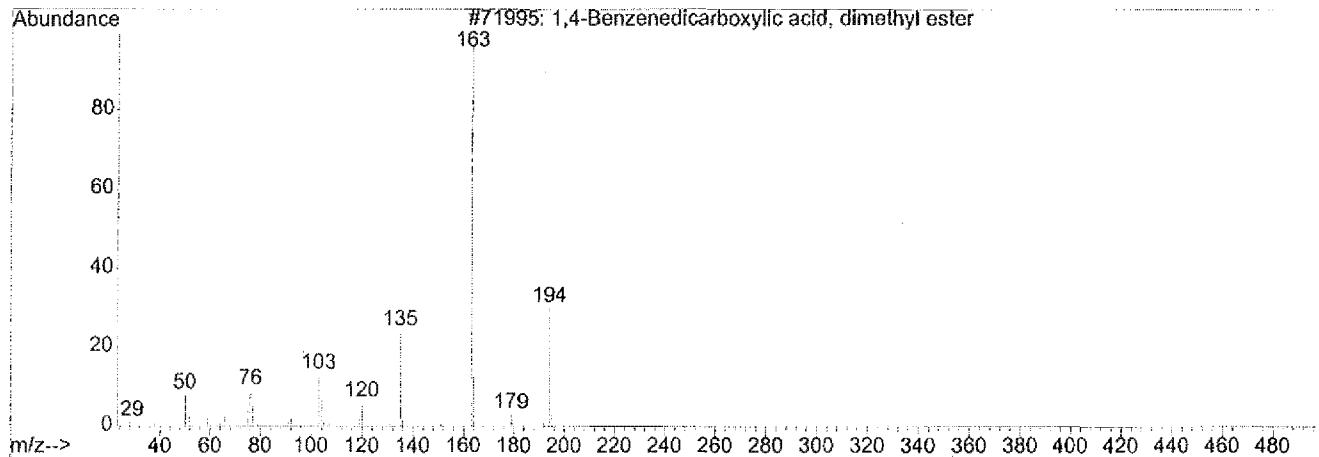
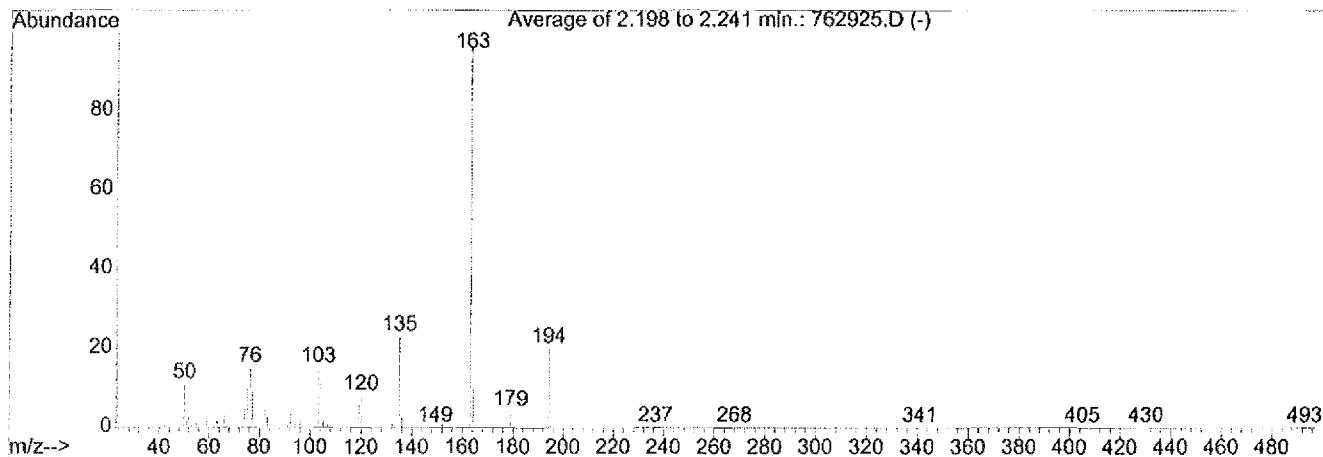
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**Information from Data File:**

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Operator : DJR  
Date Acquired : 29 Dec 2010 17:00  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 25  
AcquisitionMeth: DRUGS  
Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90  
C:\DATABASE\PMW\_TOX2.L Minimum Quality: 90  
C:\DATABASE\NIST98.L

| PK# | RT   | Library/ID                          | CAS#        | Qual |
|-----|------|-------------------------------------|-------------|------|
| 2   | 2.22 | C:\DATABASE\NIST98.L                |             |      |
|     |      | 1,4-Benzenedicarboxylic acid, dimet | 000120-61-6 | 96   |
|     |      | 1,4-Benzenedicarboxylic acid, dimet | 000120-61-6 | 96   |
|     |      | 1,4-Benzenedicarboxylic acid, dimet | 000120-61-6 | 95   |



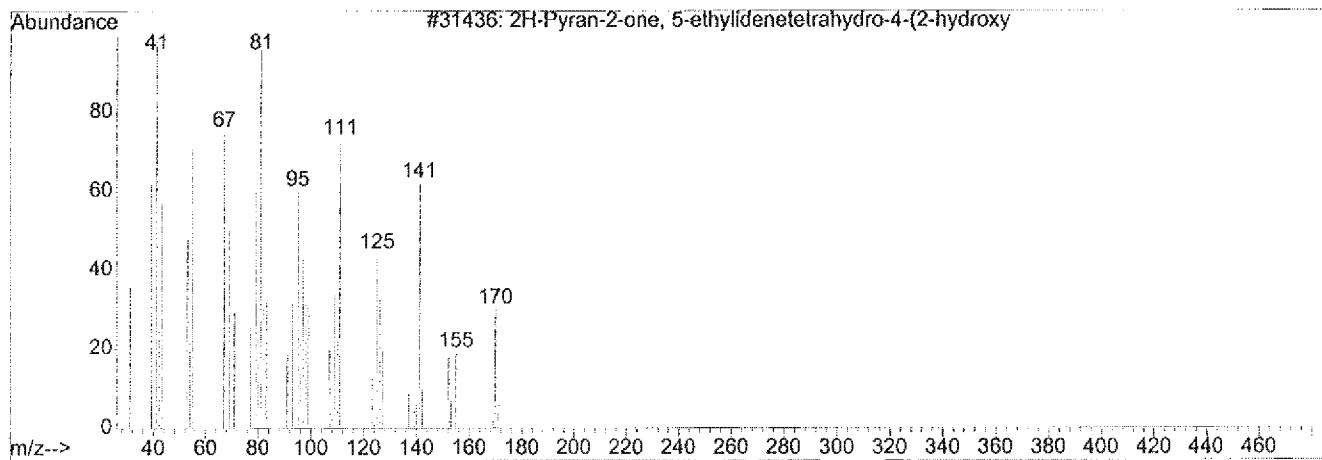
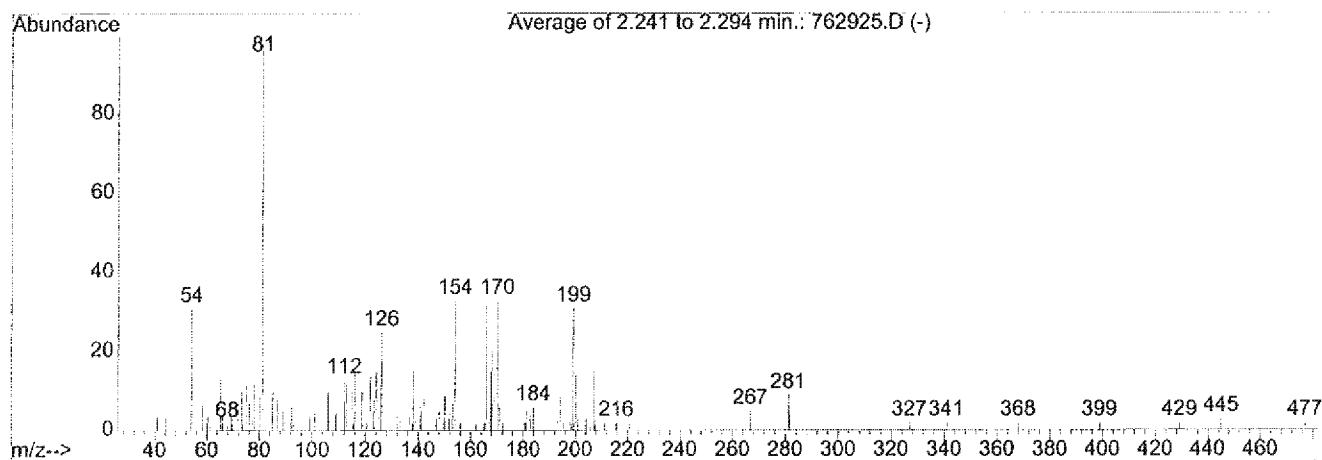
Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2010\SYSTEM4\12\_29\_10\762925.D  
 Operator : DJR  
 Date Acquired : 29 Dec 2010 17:00  
 Sample Name : XXXXXXXXXX  
 Submitted by : ASD  
 Vial Number : 25  
 AcquisitionMeth: DRUGS  
 Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90  
 C:\DATABASE\PMW\_TOX2.L Minimum Quality: 90  
 C:\DATABASE\NIST98.L

| PK# | RT   | Library/ID                          | CAS#        | Qual |
|-----|------|-------------------------------------|-------------|------|
| 3   | 2.25 | C:\DATABASE\NIST98.L                |             |      |
|     |      | 2H-Pyran-2-one, 5-ethylidenetetrahy | 038965-49-0 | 30   |
|     |      | Cyclopentaneacetic acid, 2-carboxy- | 001140-18-7 | 27   |
|     |      | Cyclopenta[c]pyran-1(3H)-one, hexah | 017672-96-7 | 17   |



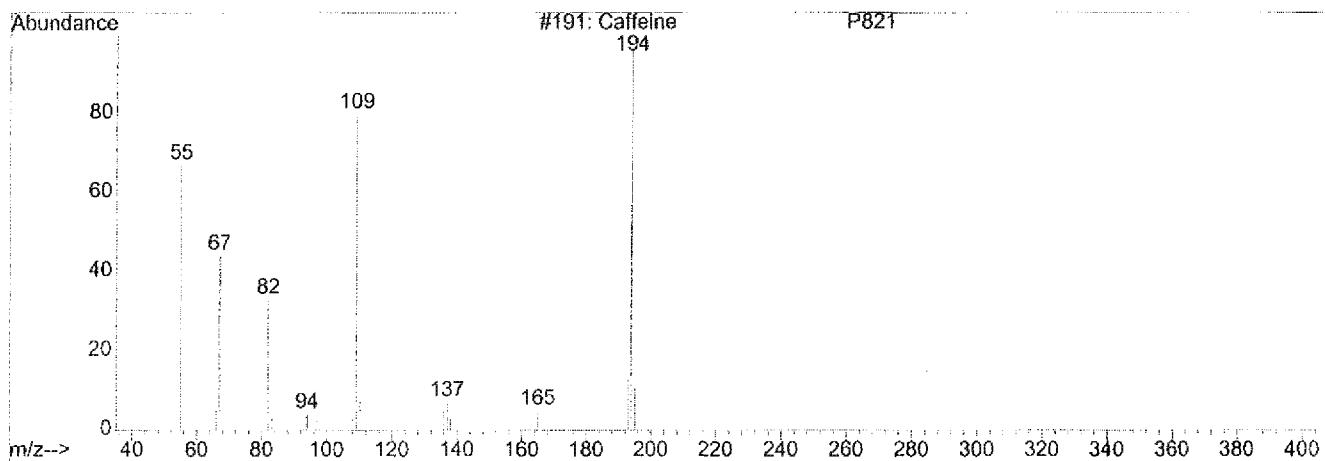
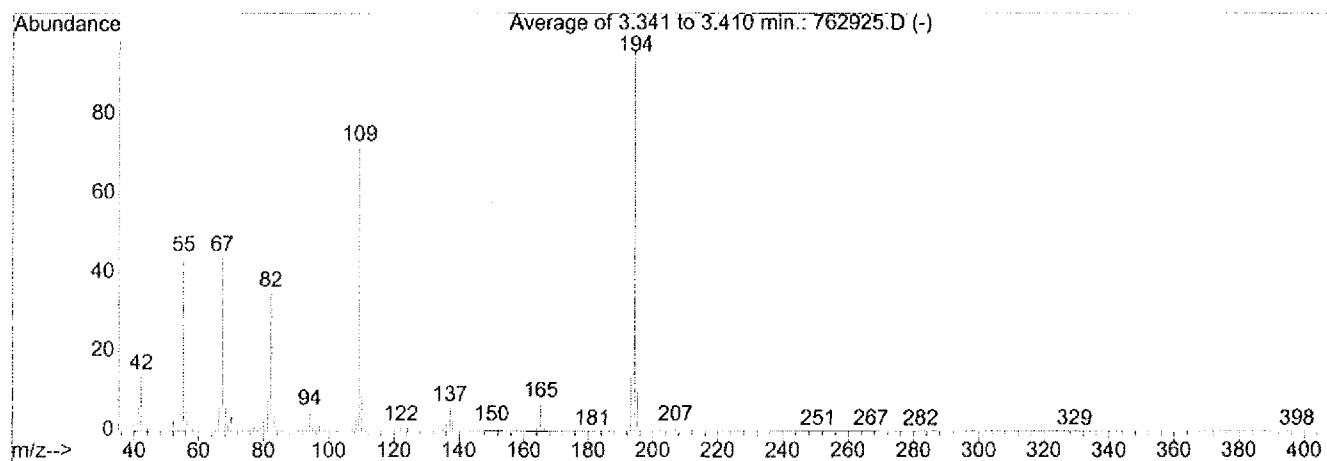
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**Information from Data File:**

File Name : F:\Q4-2010\SYSTEM4\12\_29\_10\762925.D  
Operator : DJR  
Date Acquired : 29 Dec 2010 17:00  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 25  
AcquisitionMeth: DRUGS  
Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90  
C:\DATABASE\PMW\_TOX2.L Minimum Quality: 90  
C:\DATABASE\NIST98.L

| PK# | RT   | Library/ID                 | CAS#        | Qual |
|-----|------|----------------------------|-------------|------|
| 4   | 3.36 | C:\DATABASE\PMW_TOX2.L     |             |      |
|     |      | Caffeine                   | 000058-08-2 | 93   |
|     |      | Dichlorvos                 | 000062-73-7 | 9    |
|     |      | Endogenous biomolecule 2AC | 000000-00-0 | 7    |



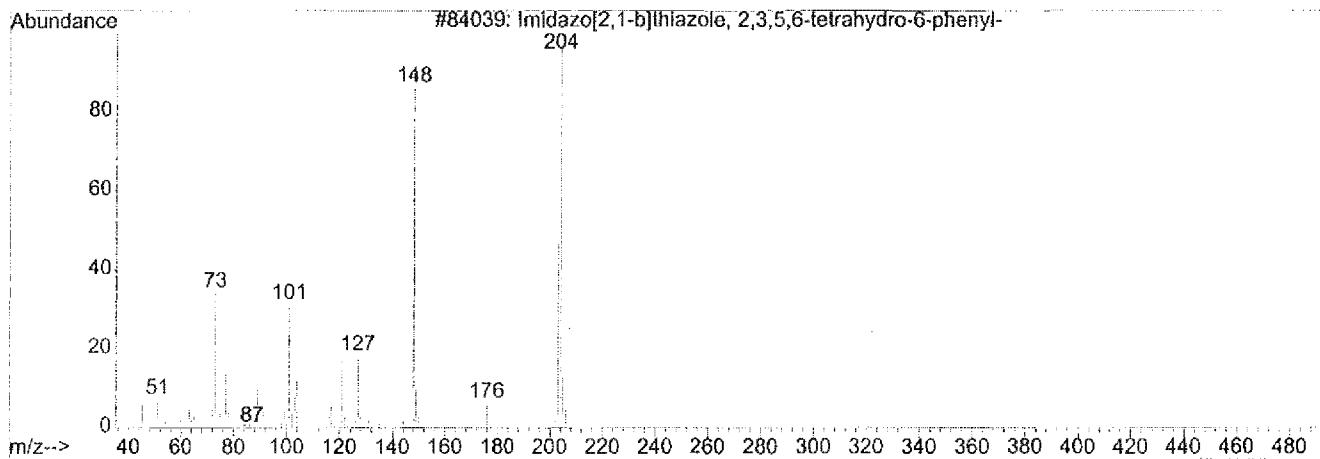
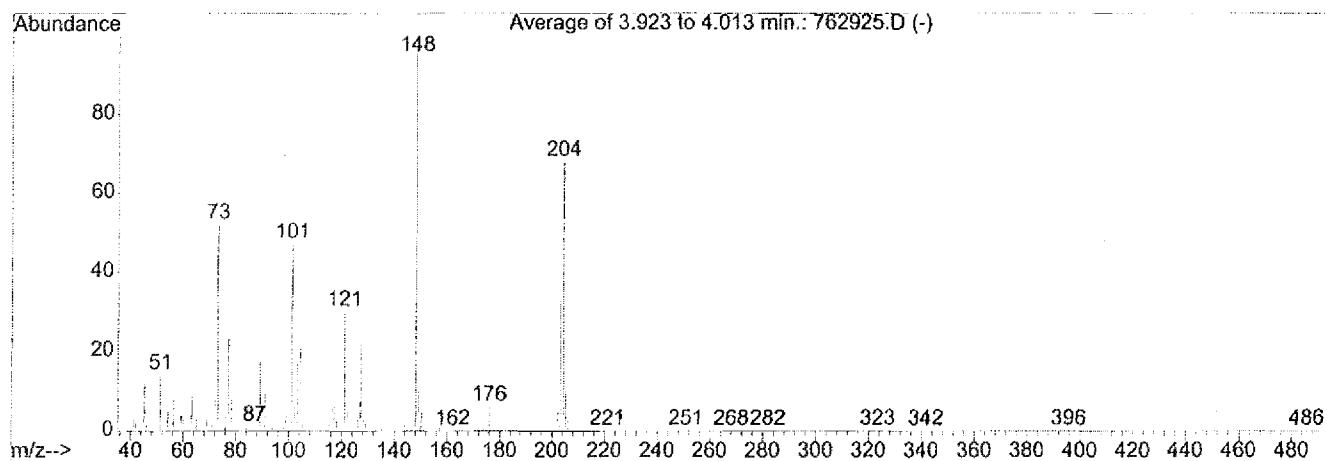
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**Information from Data File:**

File Name : F:\Q4-2010\SYSTEM4\12\_29\_10\762925.D  
Operator : DJR  
Date Acquired : 29 Dec 2010 17:00  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 25  
AcquisitionMeth: DRUGS  
Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90  
C:\DATABASE\PMW\_TOX2.L Minimum Quality: 90  
C:\DATABASE\NIST98.L

| PK# | RT   | Library/ID                          | CAS#        | Qual |
|-----|------|-------------------------------------|-------------|------|
| 5   | 3.95 | C:\DATABASE\NIST98.L                |             |      |
|     |      | Imidazo[2,1-b]thiazole, 2,3,5,6-tet | 006649-23-6 | 98   |
|     |      | Imidazo[2,1-b]thiazole, 2,3,5,6-tet | 006649-23-6 | 97   |
|     |      | Imidazo[2,1-b]thiazole, 2,3,5,6-tet | 006649-23-6 | 97   |



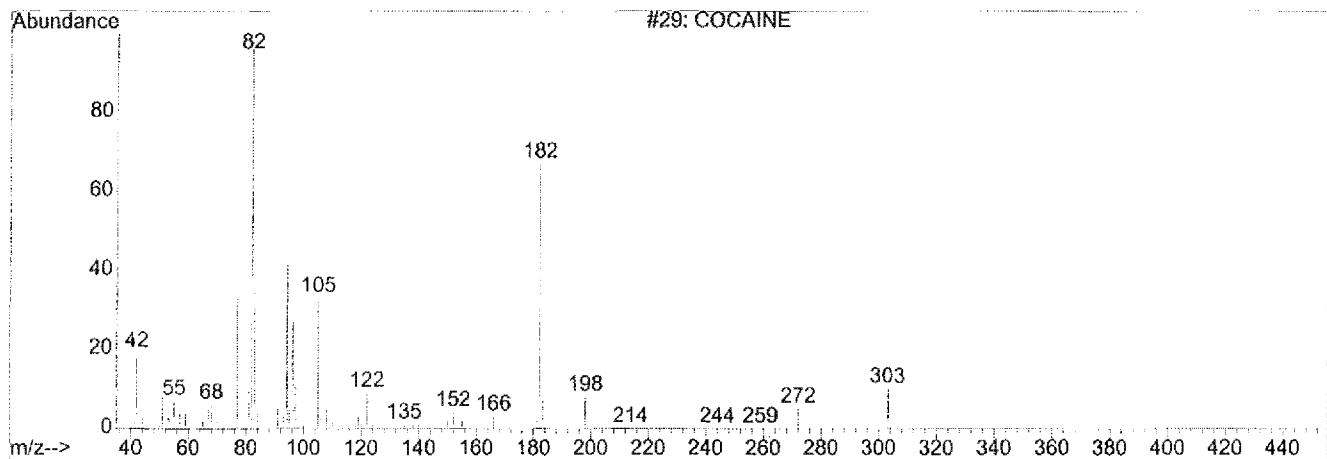
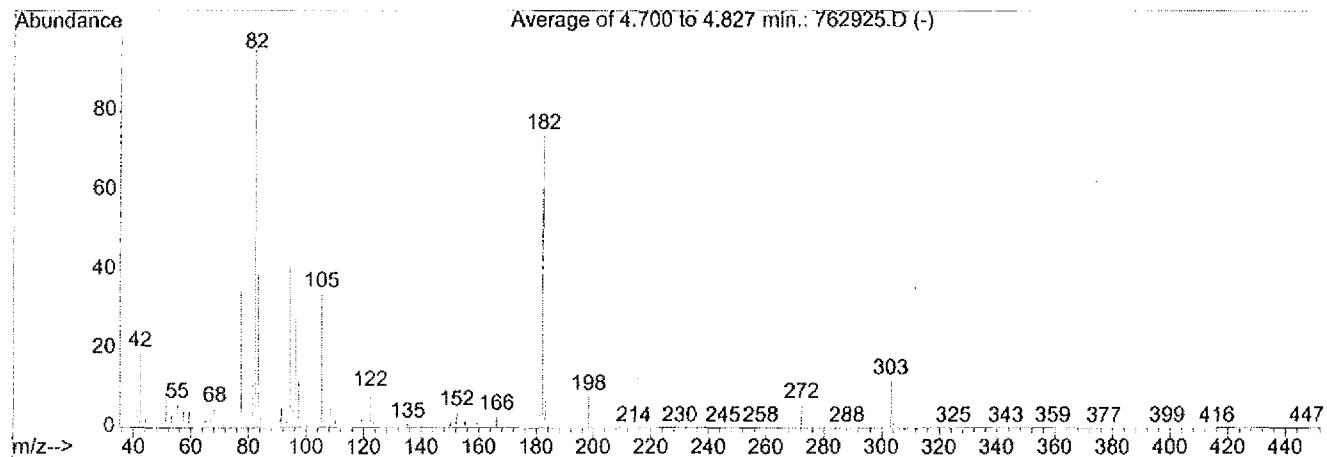
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**Information from Data File:**

File Name : F:\Q4-2010\SYSTEM4\12\_29\_10\762925.D  
Operator : DJR  
Date Acquired : 29 Dec 2010 17:00  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 25  
AcquisitionMeth: DRUGS  
Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90  
C:\DATABASE\PMW\_TOX2.L Minimum Quality: 90  
C:\DATABASE\NIST98.L

| PK# | RT   | Library/ID                   | CAS#        | Qual |
|-----|------|------------------------------|-------------|------|
| 6   | 4.73 | C:\DATABASE\SLI.L<br>COCAINE | 000050-36-2 | 99   |



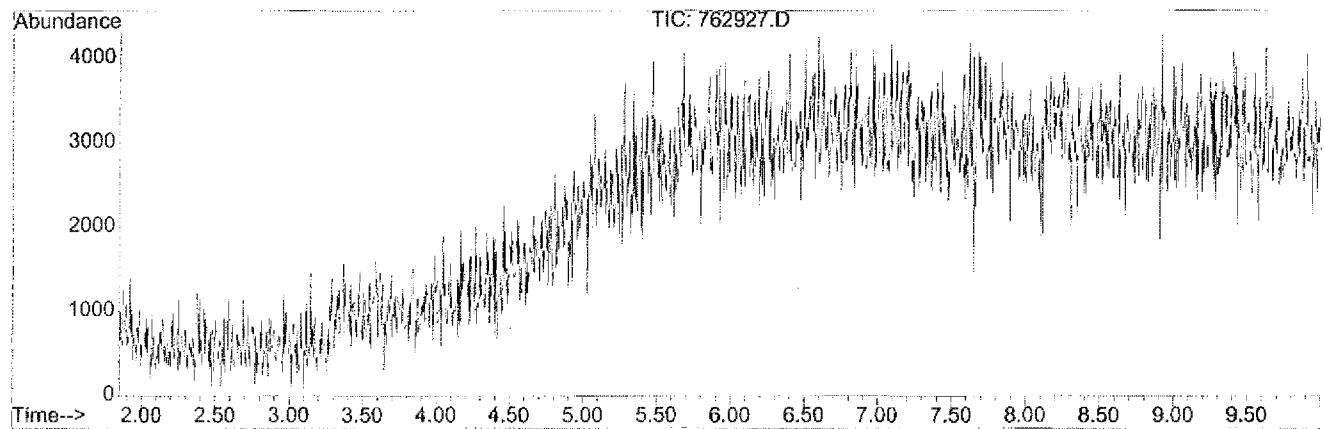
# Area Percent / Library Search Report

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## Information from Data File:

File Name : F:\Q4-2010\SYSTEM4\12\_29\_10\762927.D  
Operator : DJR  
Date Acquired : 29 Dec 2010 17:27  
Sample Name : BLANK  
Submitted by :  
Vial Number : 1  
AcquisitionMeth: DRUGS  
Integrator : RTE

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| Ret. Time | Area | Area % | Ratio % |
|-----------|------|--------|---------|
|-----------|------|--------|---------|

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\*\*\*NO INTEGRATED PEAKS\*\*\*

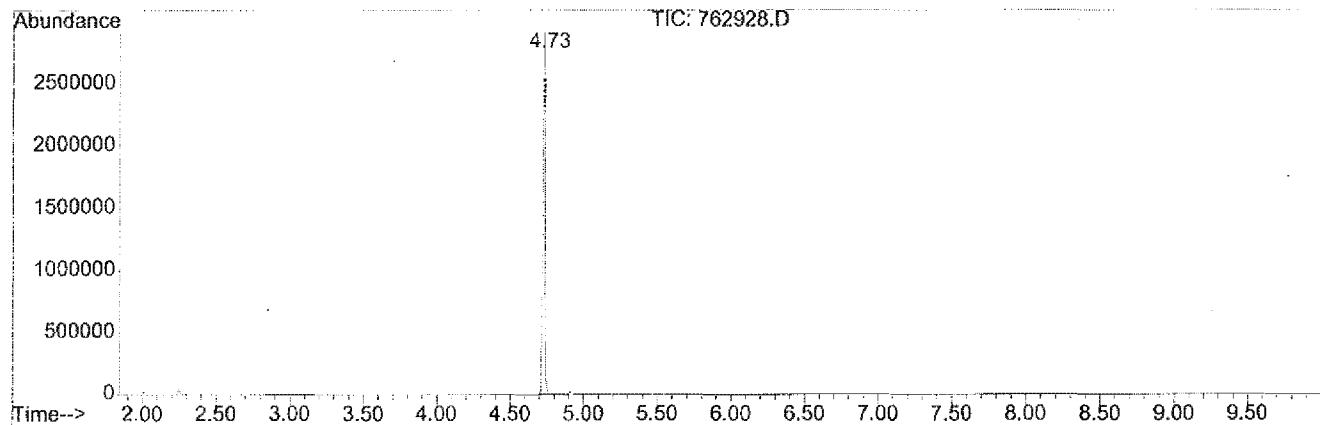
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## Information from Data File:

File Name : F:\Q4-2010\SYSTEM4\12\_29\_10\762928.D  
Operator : DJR  
Date Acquired : 29 Dec 2010 17:40  
Sample Name : COCAINE STD  
Submitted by :  
Vial Number : 28  
AcquisitionMeth: DRUGS  
Integrator : RTE

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| Ret. Time | Area    | Area % | Ratio % |
|-----------|---------|--------|---------|
| 4.726     | 2954139 | 100.00 | 100.00  |

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# Area Percent / Library Search Report

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**Information from Data File:**

File Name : F:\Q4-2010\SYSTEM4\12\_29\_10\762928.D  
Operator : DJR  
Date Acquired : 29 Dec 2010 17:40  
Sample Name : COCAINE STD  
Submitted by :  
Vial Number : 28  
AcquisitionMeth: DRUGS  
Integrator : RTE

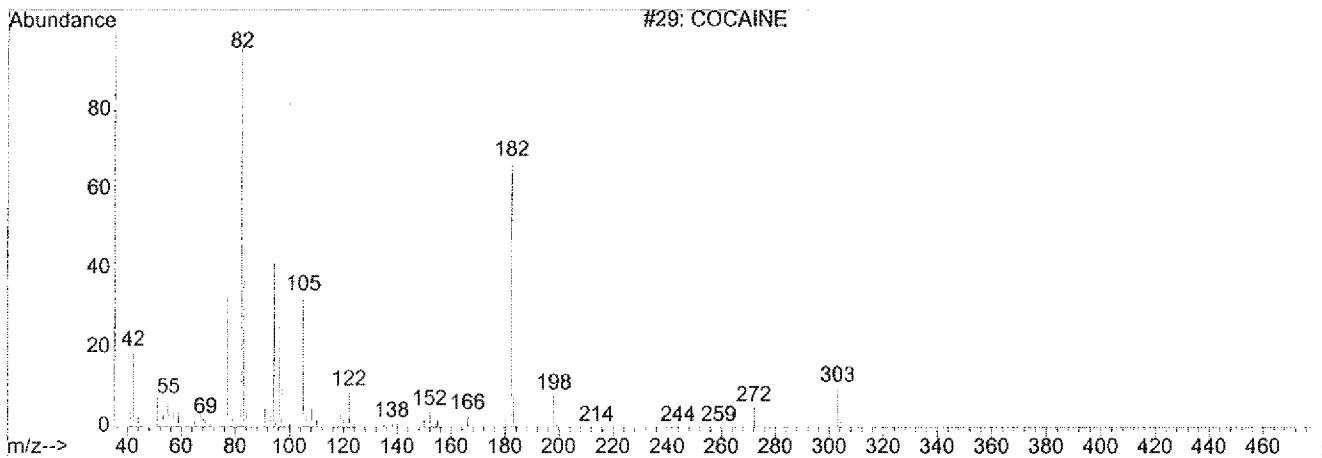
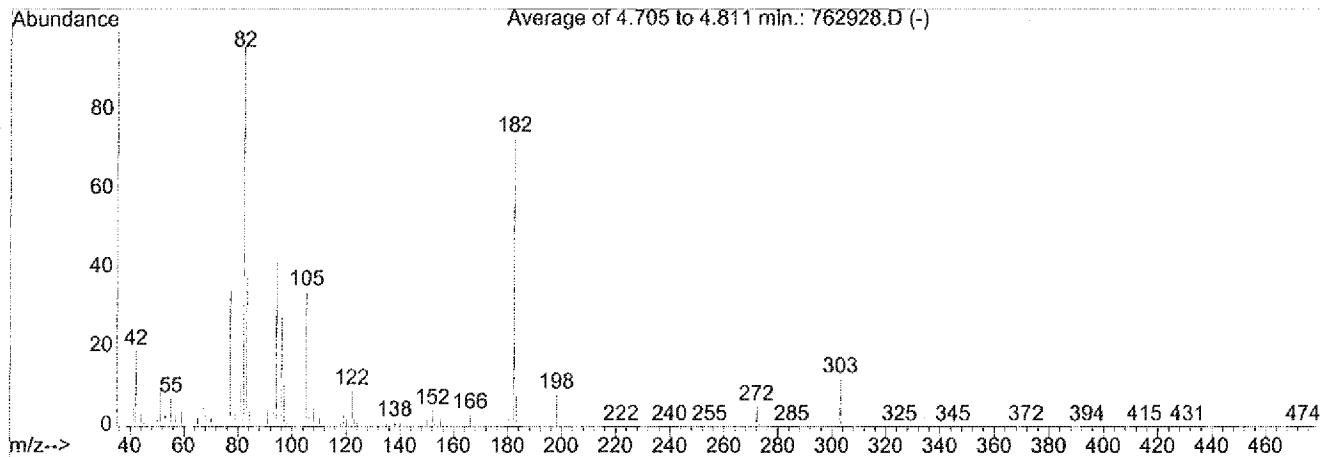
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Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90  
C:\DATABASE\PMW\_TOX2.L Minimum Quality: 90  
C:\DATABASE\NIST98.L

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| PK# | RT   | Library/ID                   | CAS#        | Qual |
|-----|------|------------------------------|-------------|------|
| 1   | 4.73 | C:\DATABASE\SLI.L<br>COCAINE | 000050-36-2 | 99   |

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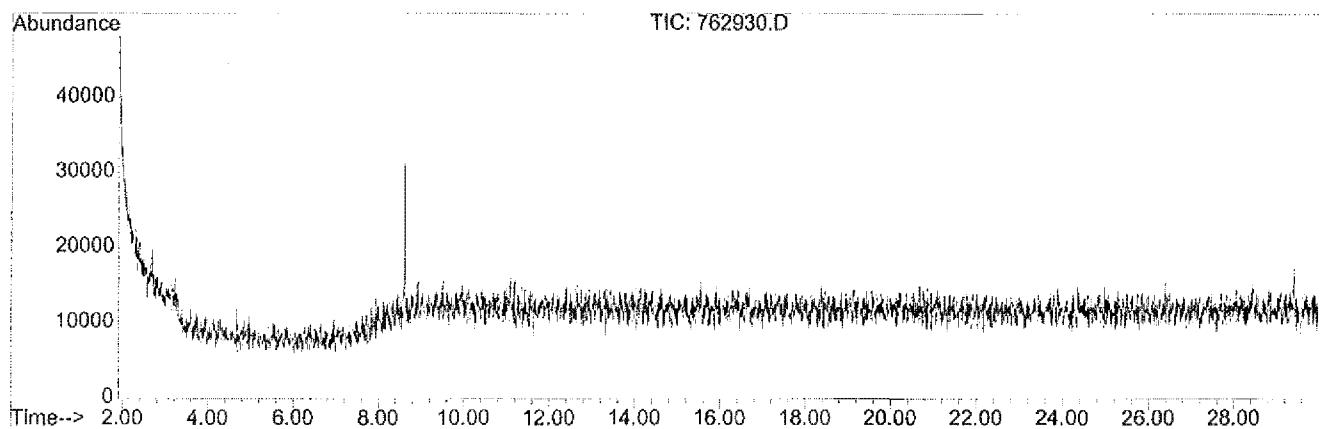
# Area Percent / Library Search Report

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## Information from Data File:

File Name : F:\Q4-2010\SYSTEM4\12\_29\_10\762930.D  
Operator : DJR  
Date Acquired : 29 Dec 2010 18:08  
Sample Name : BLANK  
Submitted by :  
Vial Number : 1  
AcquisitionMeth: WSCREEN  
Integrator : RTE

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| Ret. Time | Area | Area % | Ratio % |
|-----------|------|--------|---------|
|-----------|------|--------|---------|

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\*\*\*NO INTEGRATED PEAKS\*\*\*

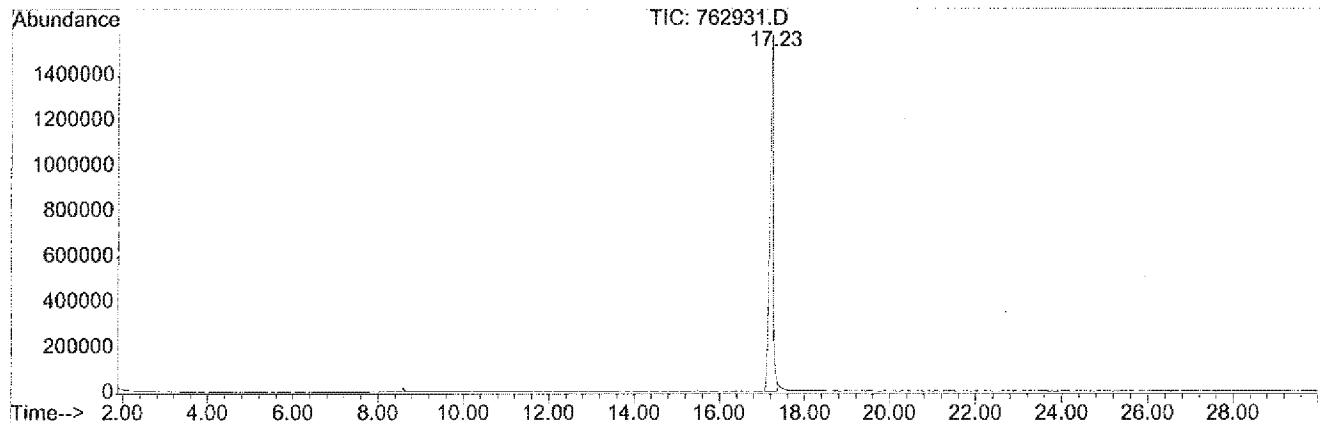
# Area Percent / Library Search Report

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**Information from Data File:**

File Name : F:\Q4-2010\SYSTEM4\12\_29\_10\762931.D  
Operator : DJR  
Date Acquired : 29 Dec 2010 18:42  
Sample Name : BUPRENORPHINE STD  
Submitted by :  
Vial Number : 31  
AcquisitionMeth: WSCREEN  
Integrator : RTE

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| Ret. Time | Area    | Area % | Ratio % |
|-----------|---------|--------|---------|
| 17.225    | 8465914 | 100.00 | 100.00  |

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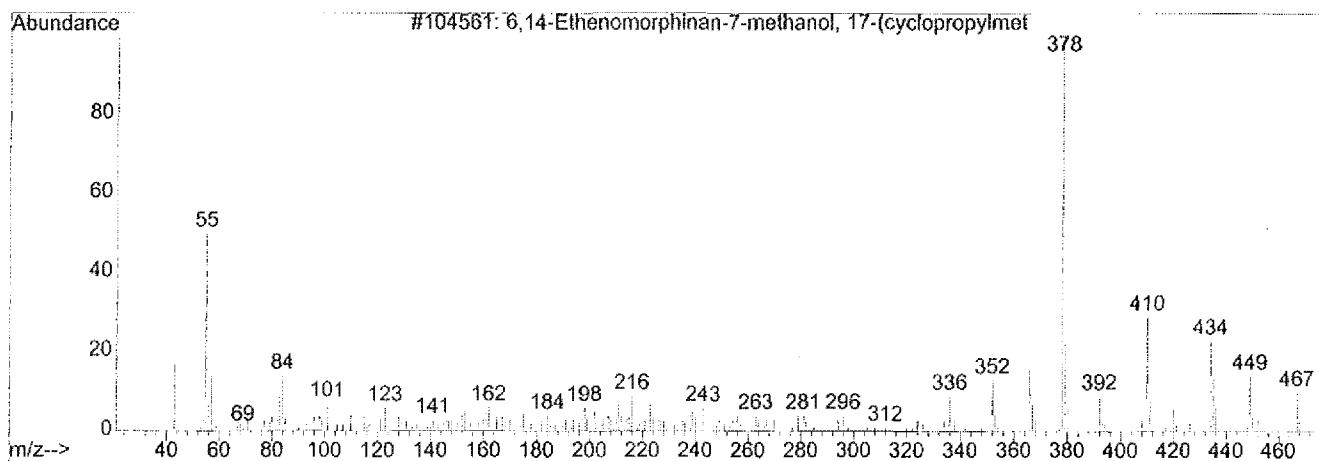
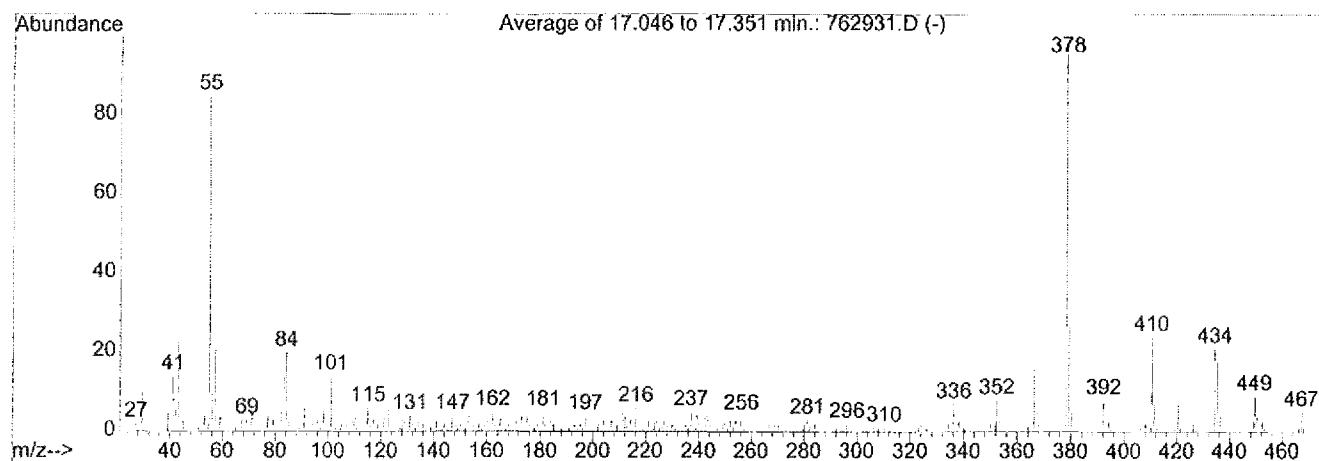
# Area Percent / Library Search Report

**Information from Data File:**

File Name : F:\Q4-2010\SYSTEM4\12\_29\_10\762931.D  
 Operator : DJR  
 Date Acquired : 29 Dec 2010 18:42  
 Sample Name : BUPRENORPHINE STD  
 Submitted by :  
 Vial Number : 31  
 AcquisitionMeth: WSCREEN  
 Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90  
                   C:\DATABASE\PMW\_TOX2.L Minimum Quality: 90  
                   C:\DATABASE\NIST98.L

| PK# | RT    | Library/ID                          | CAS#         | Qual |
|-----|-------|-------------------------------------|--------------|------|
| 1   | 17.23 | C:\DATABASE\NIST98.L                |              |      |
|     |       | 6,14-Ethenomorphinan-7-methanol, 17 | 052485-79-7  | 97   |
|     |       | 6,14-Ethenomorphinan-7-methanol, 17 | 052485-79-7  | 95   |
|     |       | Anthiaergosta-5,7,9,22-tetraene     | 1000213-42-2 | 49   |



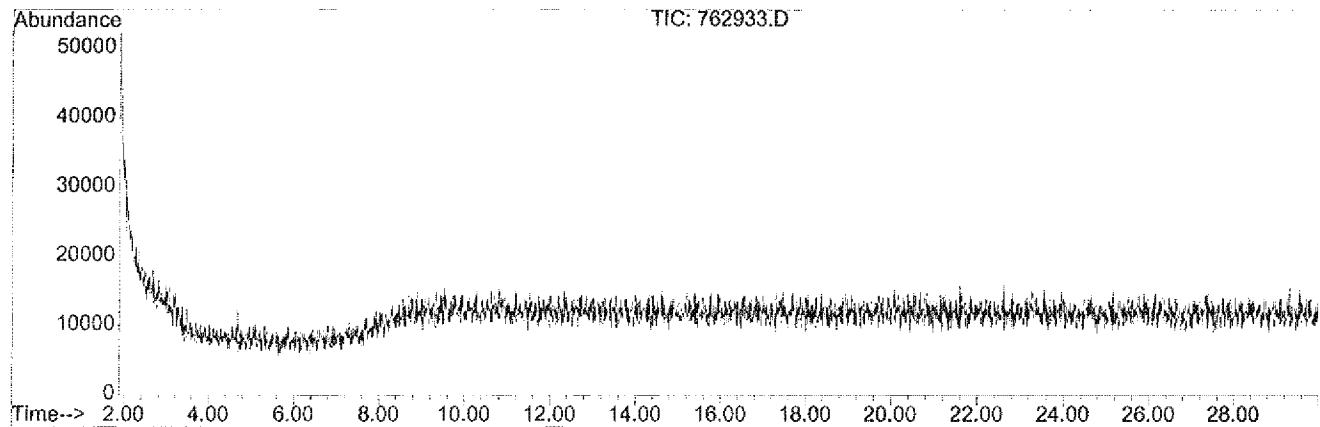
# Area Percent / Library Search Report

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## Information from Data File:

File Name : F:\Q4-2010\SYSTEM4\12\_29\_10\762933.D  
Operator : DJR  
Date Acquired : 29 Dec 2010 19:50  
Sample Name : BLANK  
Submitted by : ASD  
Vial Number : 1  
AcquisitionMeth: WSCREEN  
Integrator : RTE

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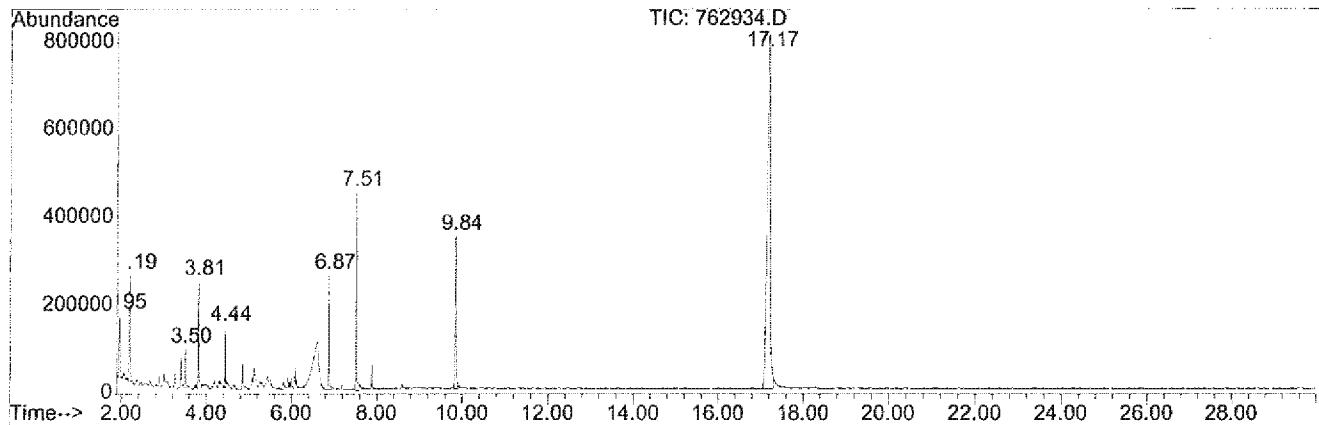
| Ret. Time | Area | Area % | Ratio % |
|-----------|------|--------|---------|
|-----------|------|--------|---------|

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\*\*\*NO INTEGRATED PEAKS\*\*\*

## Information from Data File:

File Name : F:\Q4-2010\SYSTEM4\12\_29\_10\762934.D  
Operator : DJR  
Date Acquired : 29 Dec 2010 20:24  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 34  
AcquisitionMeth: WSCREEN  
Integrator : RTE



| Ret. Time | Area    | Area % | Ratio % |
|-----------|---------|--------|---------|
| 1.953     | 234855  | 3.59   | 5.81    |
| 2.186     | 395460  | 6.05   | 9.78    |
| 3.503     | 109292  | 1.67   | 2.70    |
| 3.814     | 289950  | 4.44   | 7.17    |
| 4.436     | 136427  | 2.09   | 3.37    |
| 6.871     | 254696  | 3.90   | 6.30    |
| 7.511     | 467813  | 7.16   | 11.57   |
| 9.838     | 600252  | 9.19   | 14.84   |
| 17.172    | 4044957 | 61.91  | 100.00  |

# Area Percent / Library Search Report

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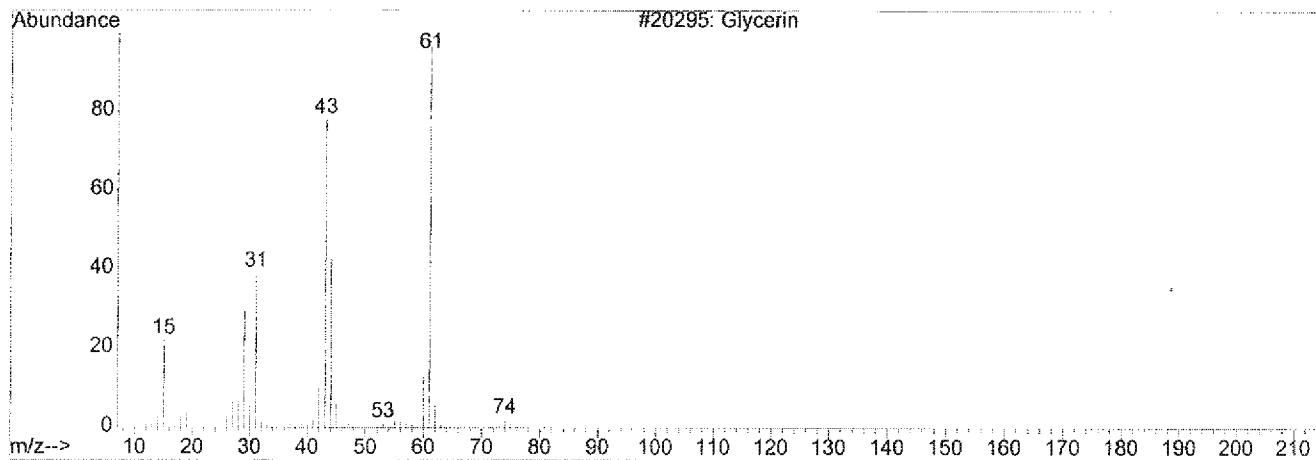
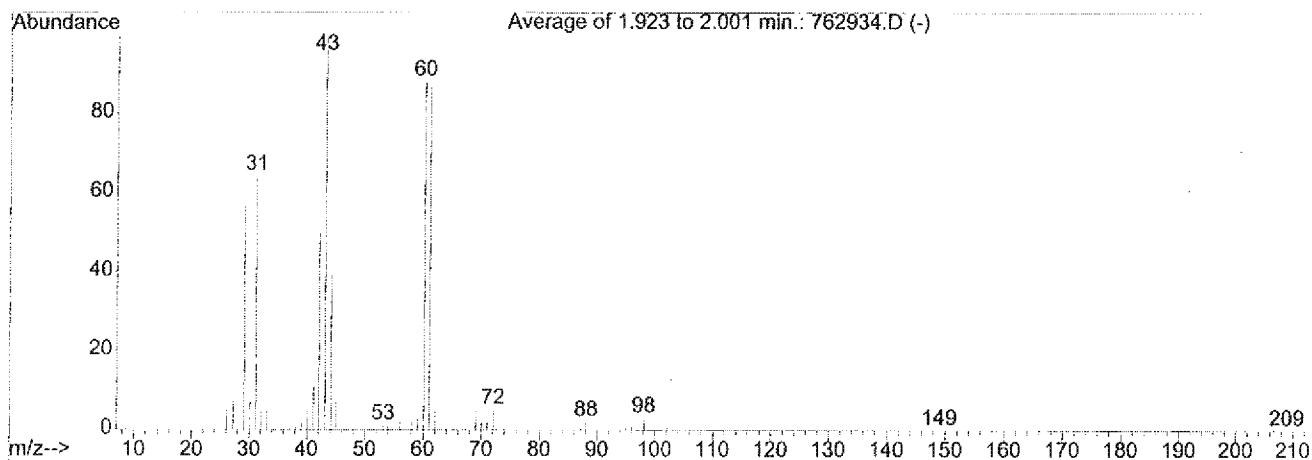
**Information from Data File:**

File Name : F:\Q4-2010\SYSTEM4\12\_29\_10\762934.D  
Operator : DJR  
Date Acquired : 29 Dec 2010 20:24  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 34  
AcquisitionMeth: WSCREEN  
Integrator : RTE

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Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90  
C:\DATABASE\PMW\_TOX2.L Minimum Quality: 90  
C:\DATABASE\NIST98.L

| PK# | RT   | Library/ID                | CAS#        | Qual |
|-----|------|---------------------------|-------------|------|
| 1   | 1.95 | C:\DATABASE\NIST98.L      |             |      |
|     |      | Glycerin                  | 000056-81-5 | 43   |
|     |      | Diglycolic acid           | 000110-99-6 | 43   |
|     |      | 1,2-Ethanediol, diformate | 000629-15-2 | 38   |



# Area Percent / Library Search Report

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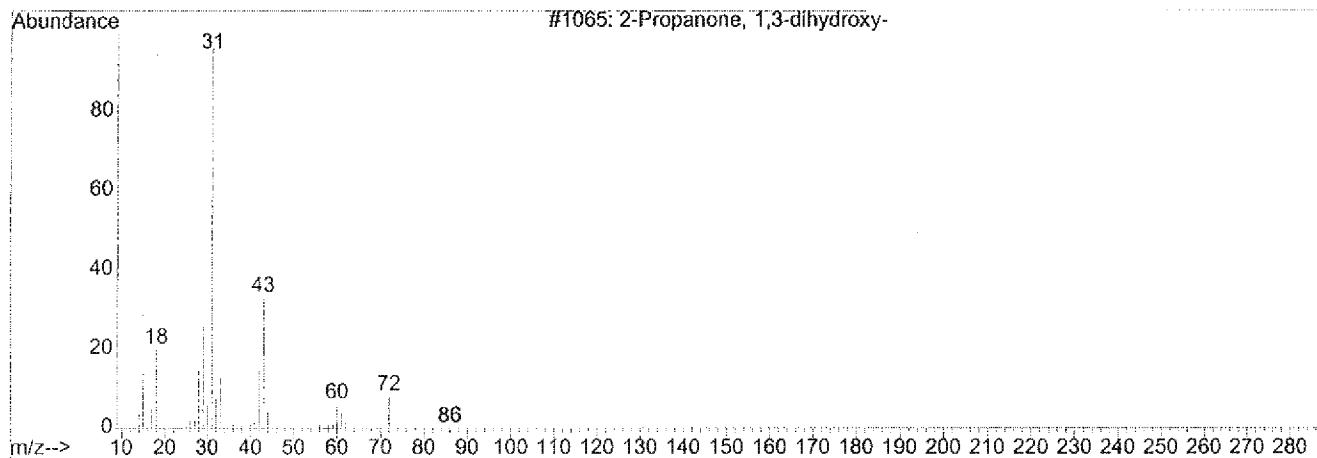
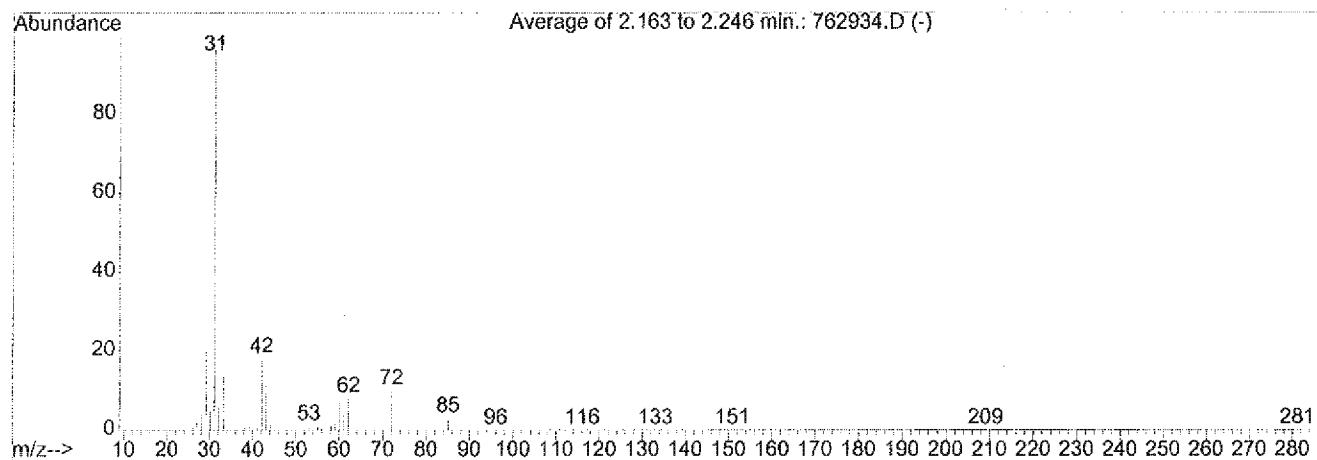
**Information from Data File:**

File Name : F:\Q4-2010\SYSTEM4\12\_29\_10\762934.D  
Operator : DJR  
Date Acquired : 29 Dec 2010 20:24  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 34  
AcquisitionMeth: WSCREEN  
Integrator : RTE

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Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90  
C:\DATABASE\PMW\_TOX2.L Minimum Quality: 90  
C:\DATABASE\NIST98.L

| PK# | RT   | Library/ID                          | CAS#        | Qual |
|-----|------|-------------------------------------|-------------|------|
| 2   | 2.19 | C:\DATABASE\NIST98.L                |             |      |
|     |      | 2-Propanone, 1,3-dihydroxy-         | 000096-26-4 | 83   |
|     |      | Acetaldehyde, hydroxy-              | 000141-46-8 | 42   |
|     |      | Acetic acid, hydroxy-, methyl ester | 000096-35-5 | 38   |



# Area Percent / Library Search Report

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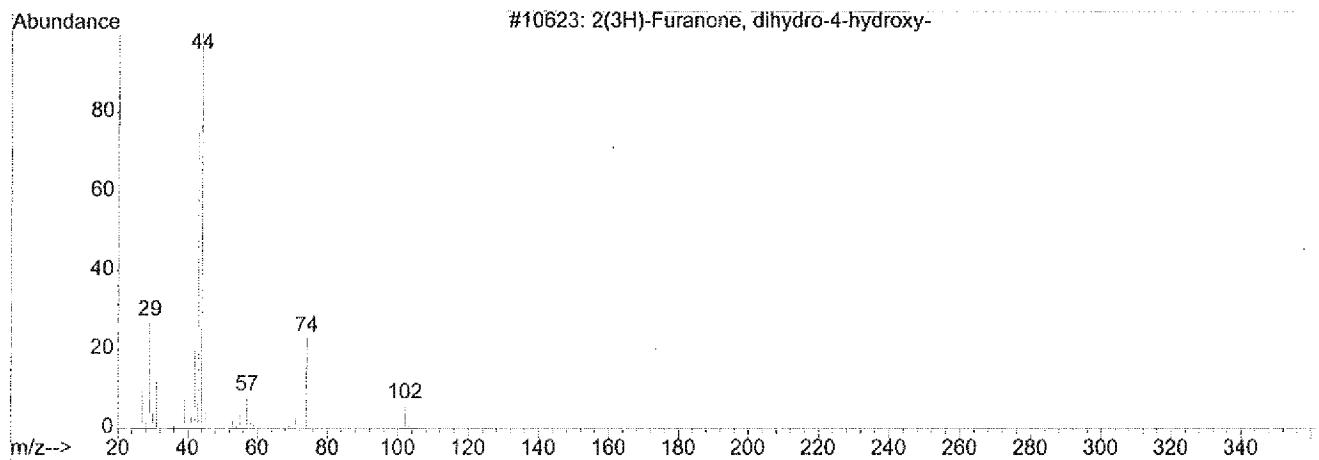
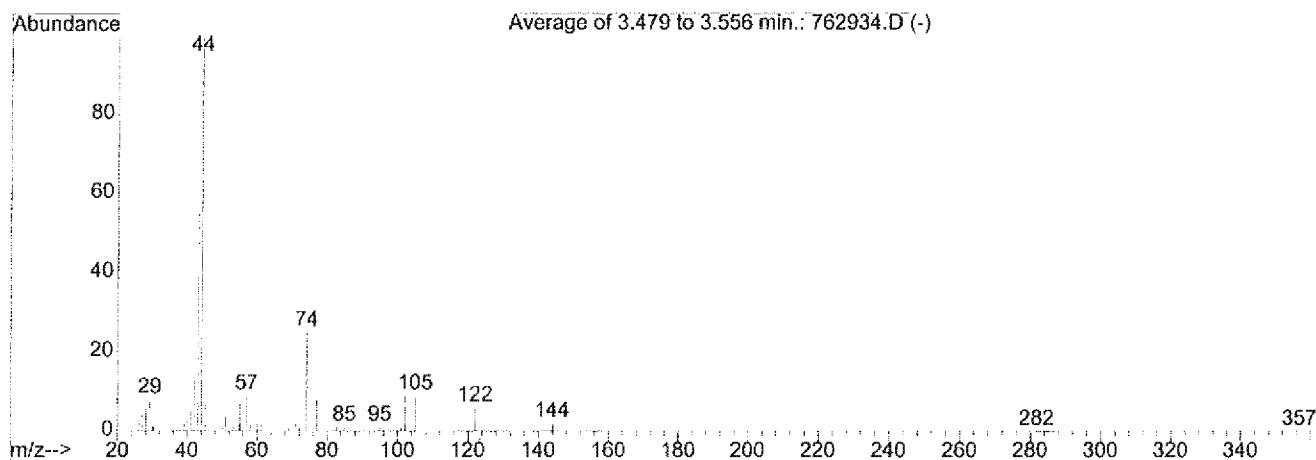
**Information from Data File:**

File Name : F:\Q4-2010\SYSTEM4\12\_29\_10\762934.D  
Operator : DJR  
Date Acquired : 29 Dec 2010 20:24  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 34  
AcquisitionMeth: WSCREEN  
Integrator : RTE

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Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90  
C:\DATABASE\PMW\_TOX2.L Minimum Quality: 90  
C:\DATABASE\NIST98.L

| PK# | RT   | Library/ID                          | CAS#        | Qual |
|-----|------|-------------------------------------|-------------|------|
| 3   | 3.50 | C:\DATABASE\NIST98.L                |             |      |
|     |      | 2 (3H)-Furanone, dihydro-4-hydroxy- | 005469-16-9 | 64   |
|     |      | 2-Propanamine                       | 000075-31-0 | 50   |
|     |      | Urea, N,N'-bis(1-methylethyl)-      | 004128-37-4 | 49   |



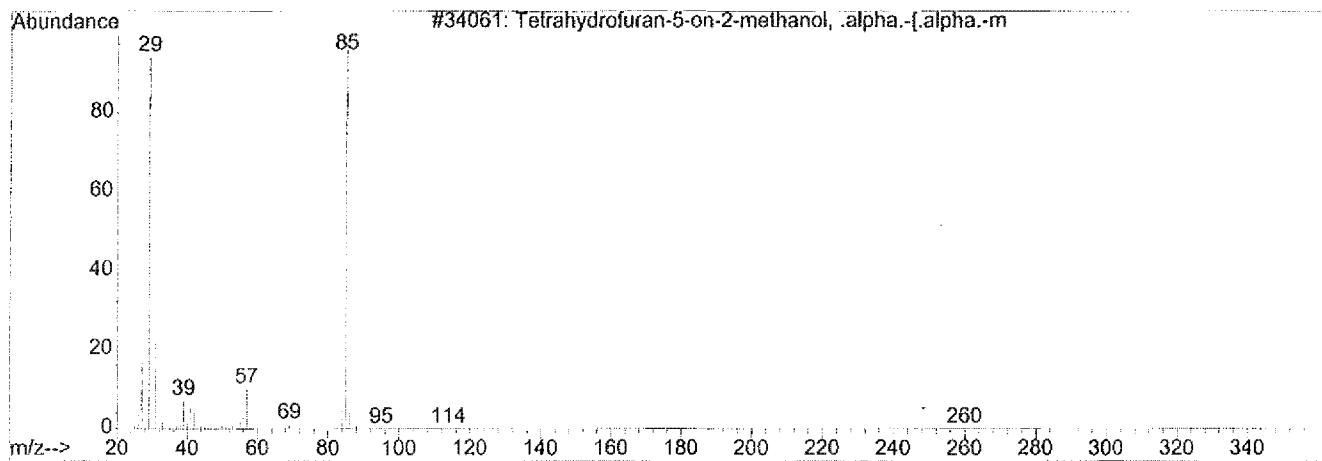
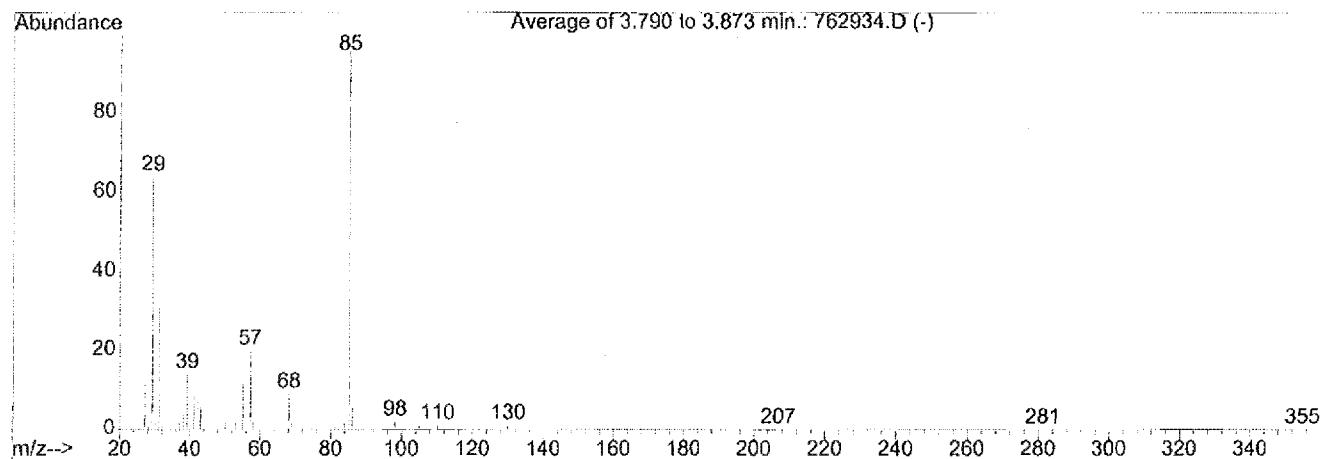
# Area Percent / Library Search Report

**Information from Data File:**

File Name : F:\Q4-2010\SYSTEM4\12\_29\_10\762934.D  
Operator : DJR  
Date Acquired : 29 Dec 2010 20:24  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 34  
AcquisitionMeth: WSCREEN  
Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90  
C:\DATABASE\PMW\_TOX2.L Minimum Quality: 90  
C:\DATABASE\NIST98.L

| PK# | RT   | Library/ID                          | CAS#         | Qual |
|-----|------|-------------------------------------|--------------|------|
| 4   | 3.81 | C:\DATABASE\NIST98.L                |              |      |
|     |      | Tetrahydrofuran-5-on-2-methanol, .a | 1000192-28-3 | 64   |
|     |      | Pentanal, 5-[(tetrahydro-2H-pyran-2 | 014194-86-6  | 45   |
|     |      | (S)-(+)-2',3'-Dideoxyribonolactone  | 032780-06-6  | 45   |



# Area Percent / Library Search Report

**Information from Data File:**

File Name : F:\Q4-2010\SYSTEM4\12\_29\_10\762934.D  
Operator : DJR  
Date Acquired : 29 Dec 2010 20:24  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 34  
AcquisitionMeth: WSCREEN  
Integrator : RTE

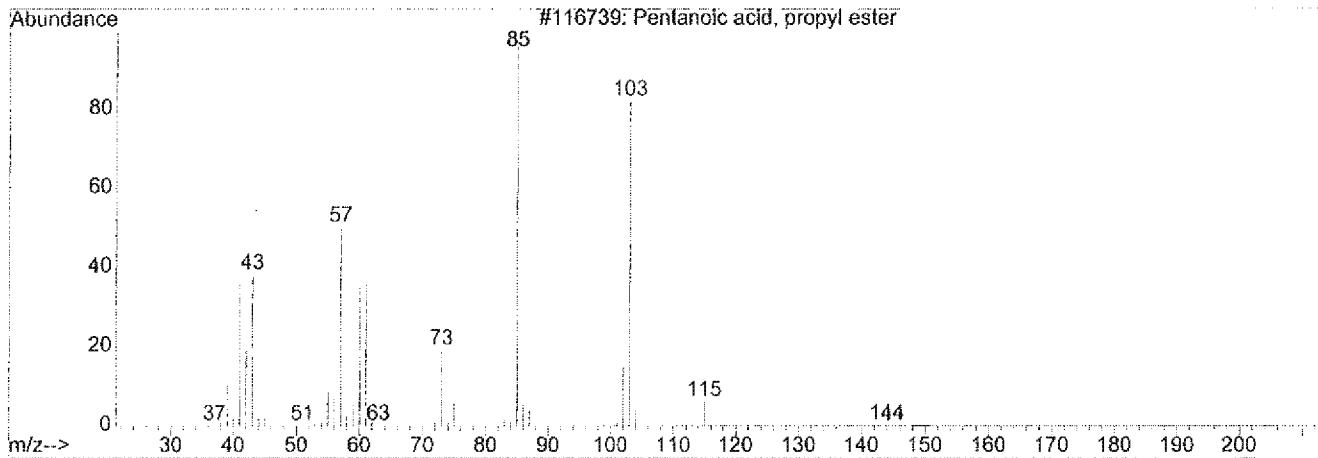
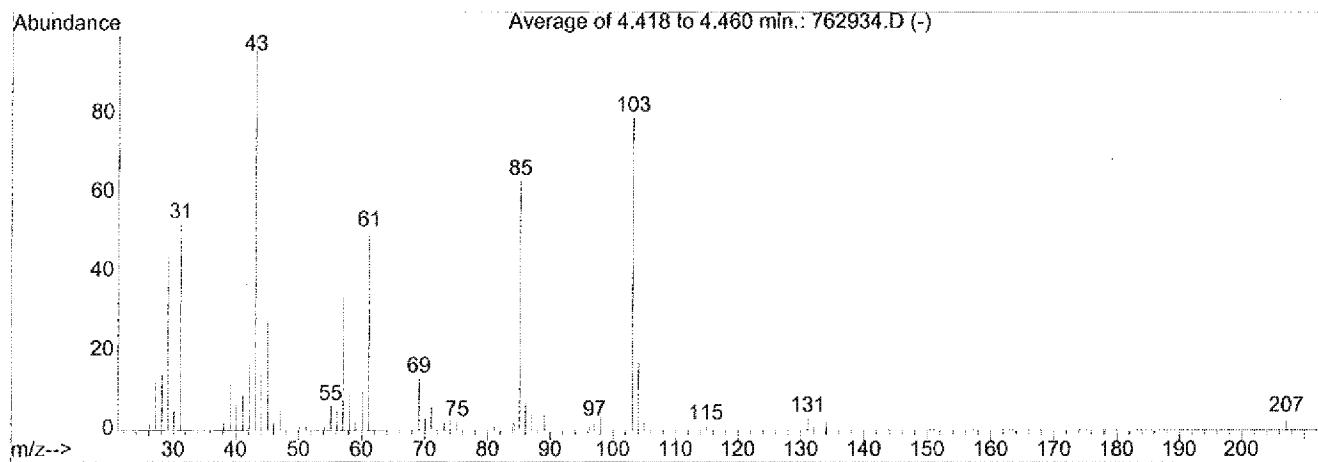
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Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90  
C:\DATABASE\PMW\_TOX2.L Minimum Quality: 90  
C:\DATABASE\NIST98.L

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| PK# | RT   | Library/ID                          | CAS#        | Qual |
|-----|------|-------------------------------------|-------------|------|
| 5   | 4.44 | C:\DATABASE\NIST98.L                |             |      |
|     |      | Pentanoic acid, propyl ester        | 000141-06-0 | 40   |
|     |      | Hexyl isovalerate                   | 010632-13-0 | 40   |
|     |      | Butanoic acid, 3-oxo-, 2-methylprop | 007779-75-1 | 38   |

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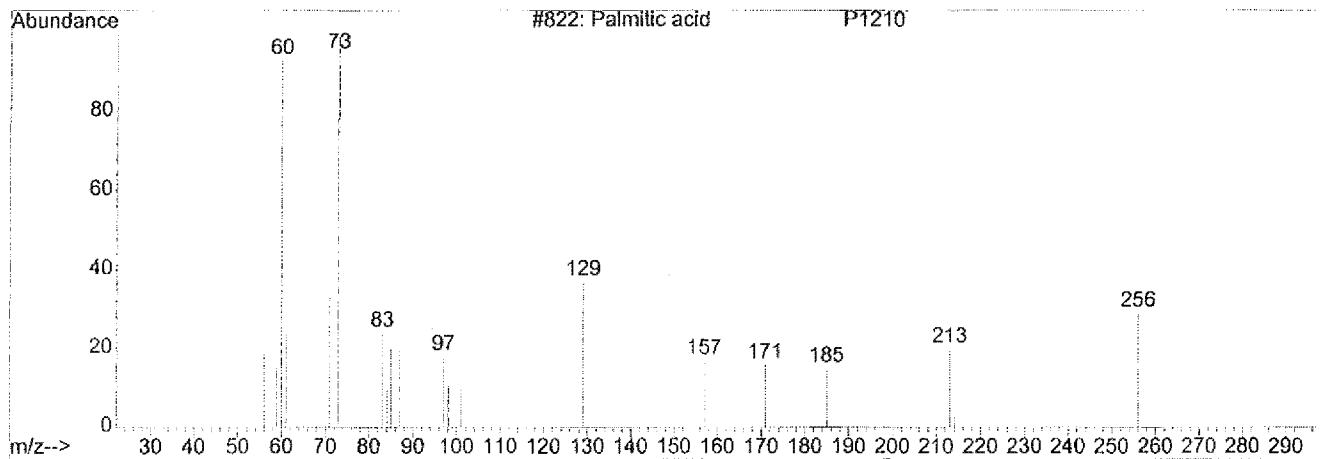
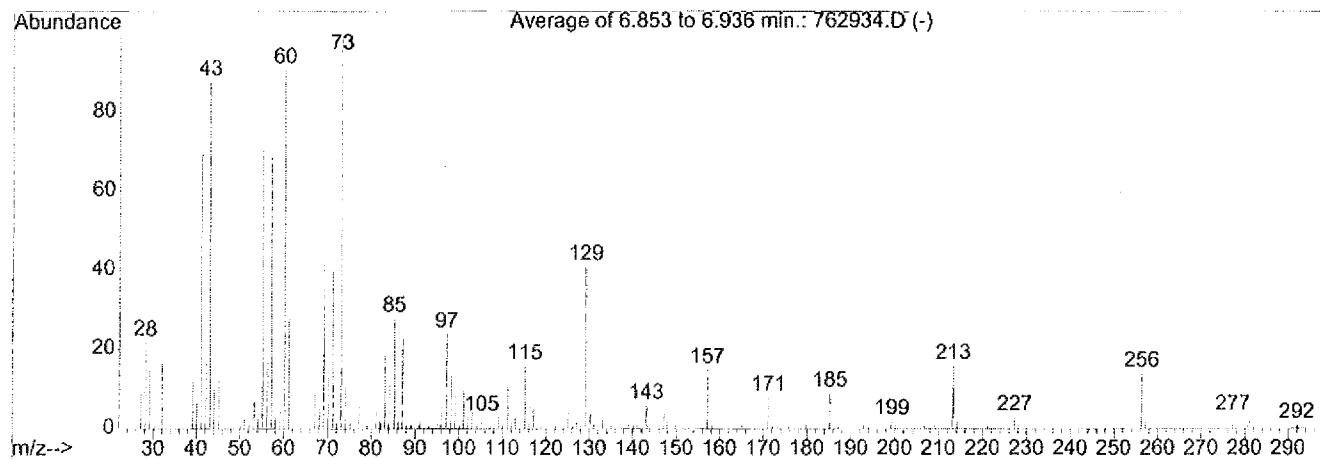
# Area Percent / Library Search Report

**Information from Data File:**

File Name : F:\Q4-2010\SYSTEM4\12\_29\_10\762934.D  
Operator : DJR  
Date Acquired : 29 Dec 2010 20:24  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 34  
AcquisitionMeth: WSCREEN  
Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90  
C:\DATABASE\PMW\_TOX2.L Minimum Quality: 90  
C:\DATABASE\NIST98.L

| PK# | RT   | Library/ID             | CAS#        | Qual |
|-----|------|------------------------|-------------|------|
| 6   | 6.87 | C:\DATABASE\PMW_TOX2.L |             |      |
|     |      | Palmitic acid          | 000057-10-3 | 94   |
|     |      | Myristic acid          | 000544-63-8 | 43   |
|     |      | Acetic acid            | 000064-19-7 | 9    |



# Area Percent / Library Search Report

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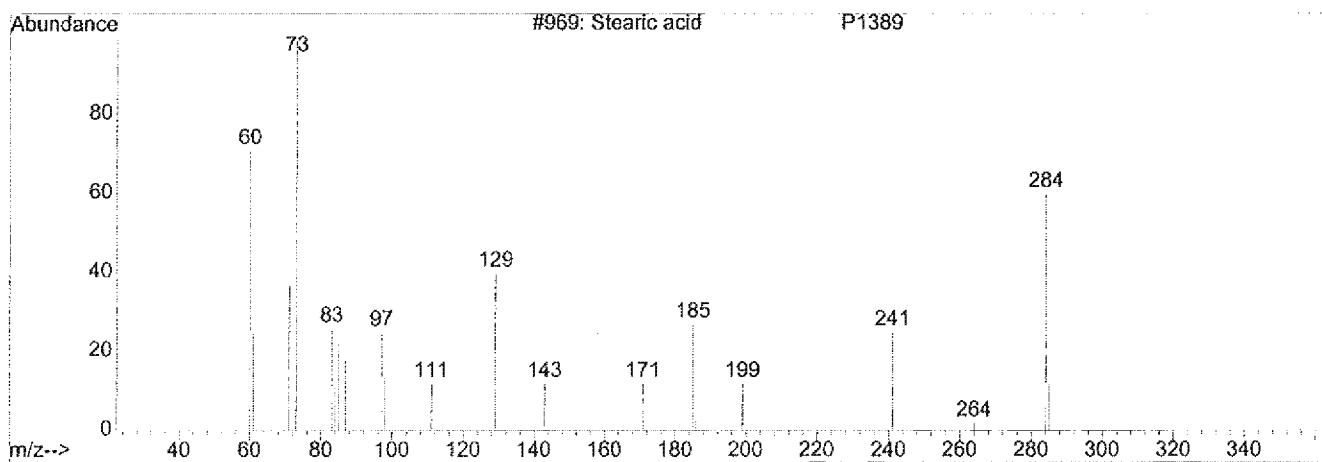
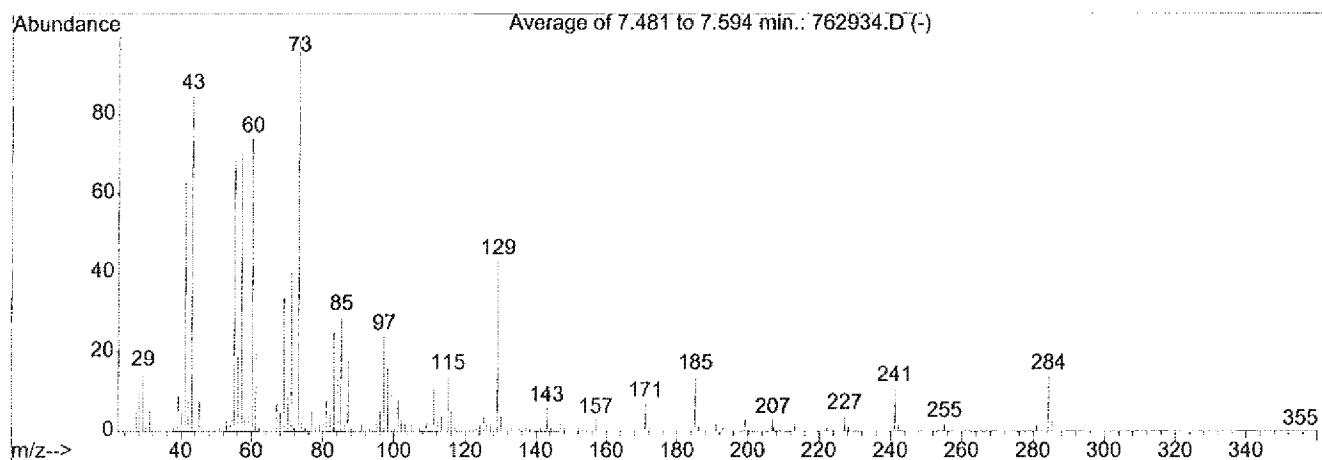
**Information from Data File:**

File Name : F:\Q4-2010\SYSTEM4\12\_29\_10\762934.D  
Operator : DJR  
Date Acquired : 29 Dec 2010 20:24  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 34  
AcquisitionMeth: WSCREEN  
Integrator : RTE

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Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90  
C:\DATABASE\PMW\_TOX2.L Minimum Quality: 90  
C:\DATABASE\NIST98.L

| PK# | RT   | Library/ID             | CAS#        | Qual |
|-----|------|------------------------|-------------|------|
| 7   | 7.51 | C:\DATABASE\PMW_TOX2.L |             |      |
|     |      | Stearic acid           | 000057-11-4 | 91   |
|     |      | Myristic acid          | 000544-63-8 | 58   |
|     |      | Tridecane              | 000629-50-5 | 10   |



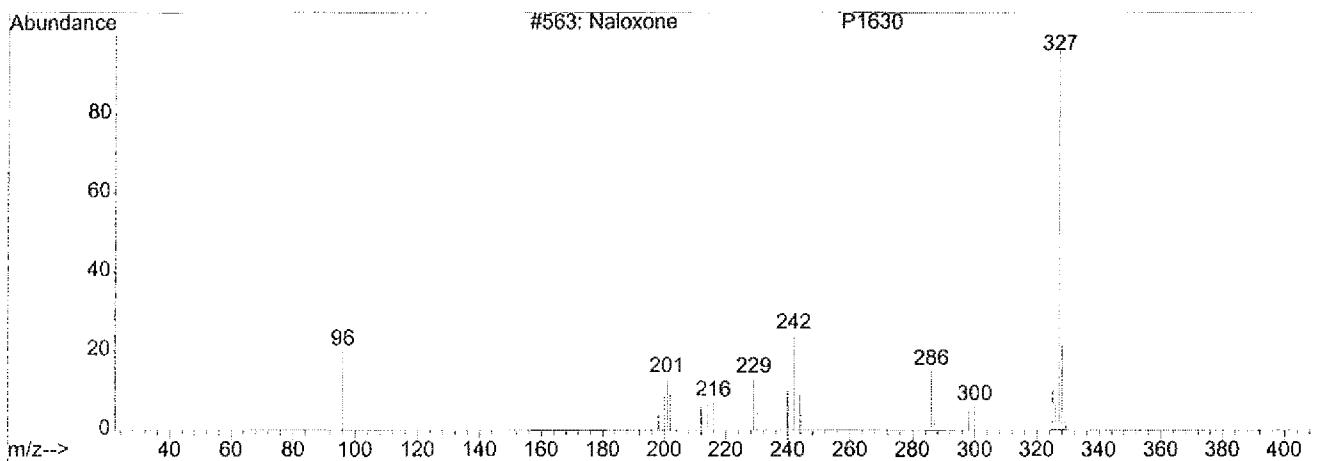
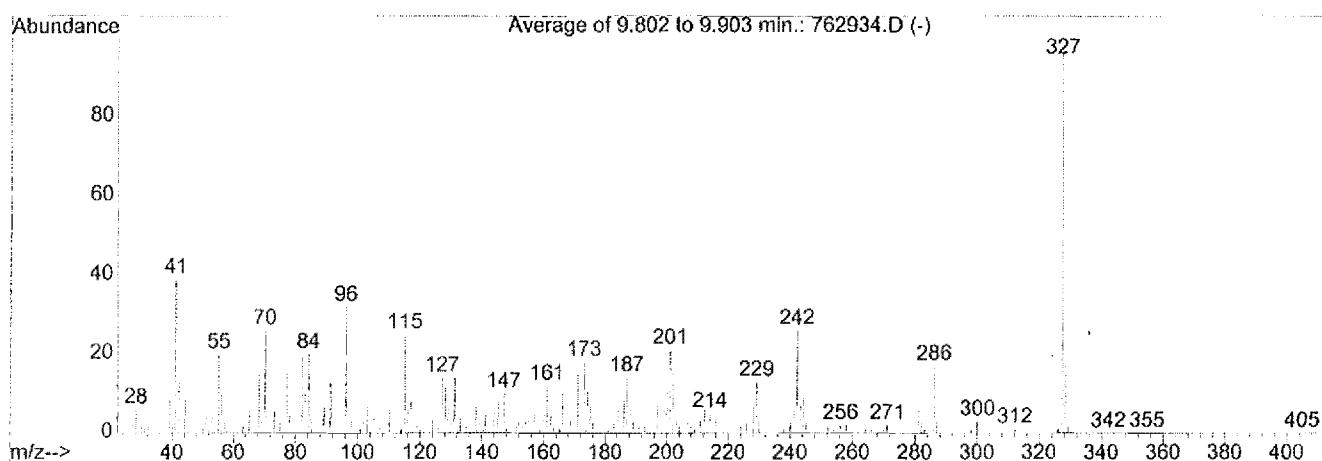
# Area Percent / Library Search Report

**Information from Data File:**

File Name : F:\Q4-2010\SYSTEM4\12\_29\_10\762934.D  
Operator : DJR  
Date Acquired : 29 Dec 2010 20:24  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 34  
AcquisitionMeth: WSCREEN  
Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90  
C:\DATABASE\PMW\_TOX2.L Minimum Quality: 90  
C:\DATABASE\NIST98.L

| PK# | RT   | Library/ID                   | CAS#        | Qual |
|-----|------|------------------------------|-------------|------|
| 8   | 9.84 | C:\DATABASE\PMW_TOX2.L       |             |      |
|     |      | Naloxone                     | 000465-65-6 | 90   |
|     |      | Heroin-M (3-acetyl-morphine) | 000000-00-0 | 38   |
|     |      | Naloxone AC                  | 000000-00-0 | 33   |



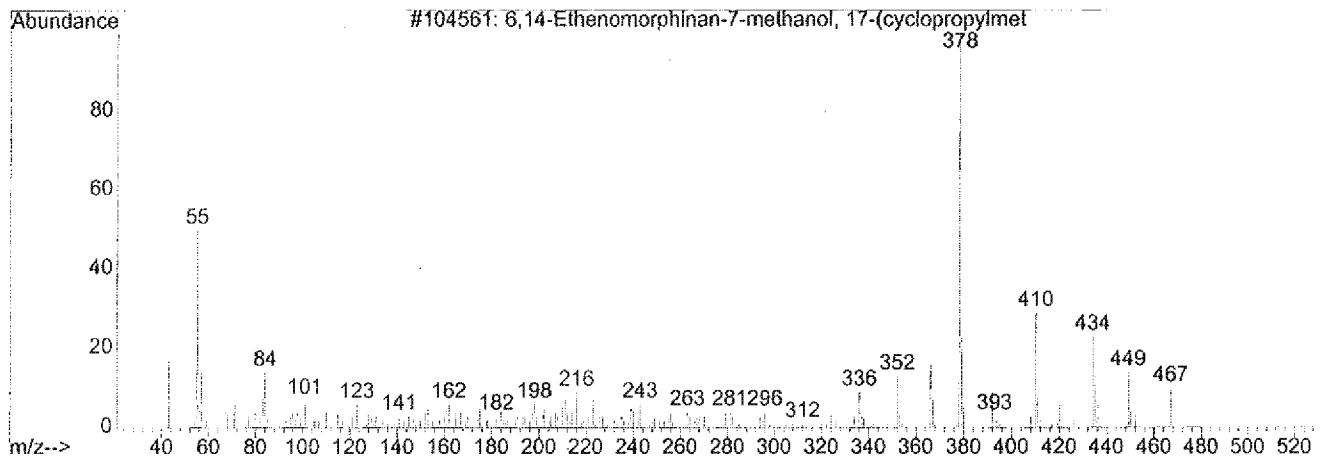
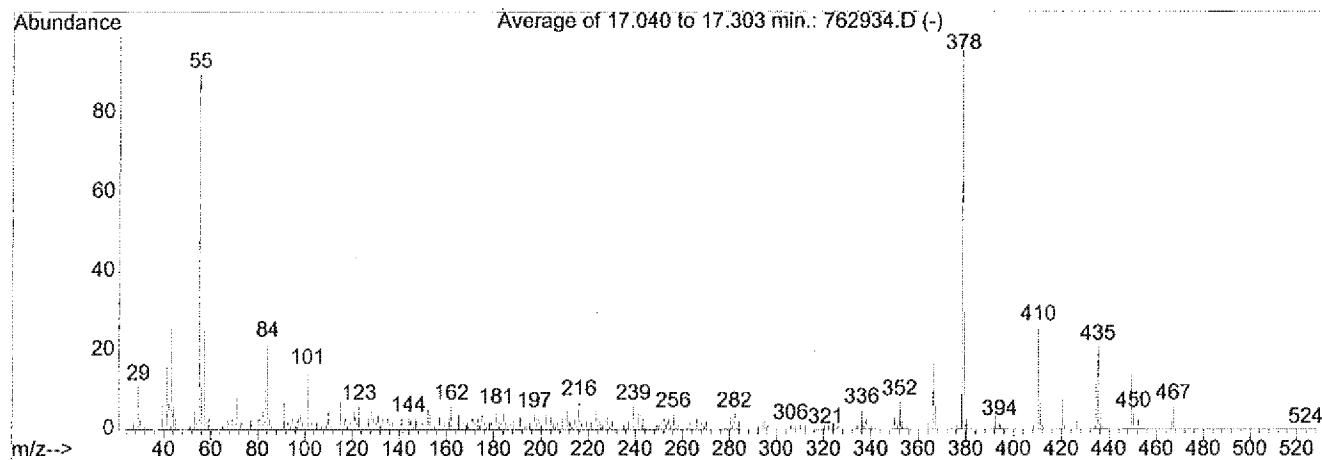
Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2010\SYSTEM4\12\_29\_10\762934.D  
 Operator : DJR  
 Date Acquired : 29 Dec 2010 20:24  
 Sample Name : XXXXXXXXXX  
 Submitted by : ASD  
 Vial Number : 34  
 AcquisitionMeth: WSCREEN  
 Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90  
 C:\DATABASE\PMW\_TOX2.L Minimum Quality: 90  
 C:\DATABASE\NIST98.L

| PK# | RT    | Library/ID                          | CAS#         | Qual |
|-----|-------|-------------------------------------|--------------|------|
| 9   | 17.17 | C:\DATABASE\NIST98.L                |              |      |
|     |       | 6,14-Ethenomorphinan-7-methanol, 17 | 052485-79-7  | 96   |
|     |       | 6,14-Ethenomorphinan-7-methanol, 17 | 052485-79-7  | 90   |
|     |       | Anthiaergosta-5,7,9,22-tetraene     | 1000213-42-2 | 50   |

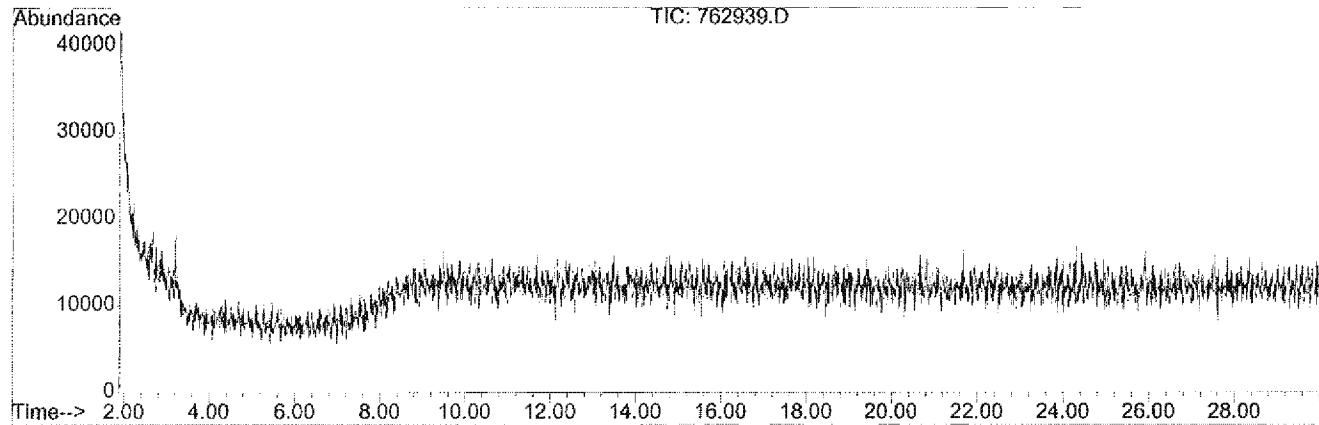


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Information from Data File:

File Name : F:\Q4-2010\SYSTEM4\12\_29\_10\762939.D  
Operator : DJR  
Date Acquired : 29 Dec 2010 23:14  
Sample Name : BLANK  
Submitted by :  
Vial Number : 1  
AcquisitionMeth: WSCREEN  
Integrator : RTE

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| Ret. Time | Area | Area % | Ratio % |
|-----------|------|--------|---------|
|-----------|------|--------|---------|

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\*\*\*NO INTEGRATED PEAKS\*\*\*

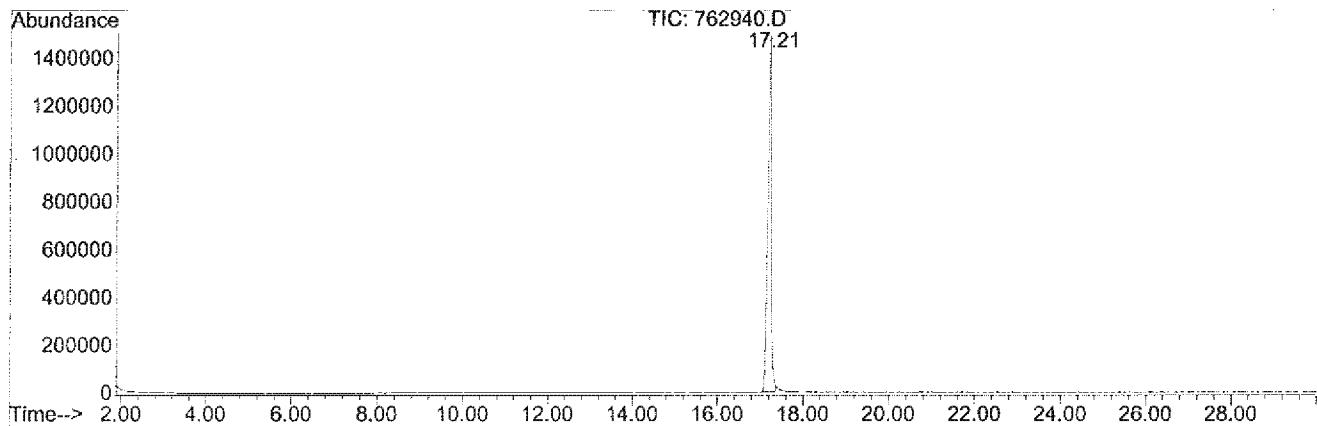
# Area Percent / Library Search Report

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Information from Data File:

File Name : F:\Q4-2010\SYSTEM4\12\_29\_10\762940.D  
Operator : DJR  
Date Acquired : 29 Dec 2010 23:49  
Sample Name : BUPRENORPHINE STD  
Submitted by :  
Vial Number : 31  
AcquisitionMeth: WSCREEN  
Integrator : RTE

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| Ret. Time | Area    | Area % | Ratio % |
|-----------|---------|--------|---------|
| 17.213    | 8123243 | 100.00 | 100.00  |

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Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2010\SYSTEM4\12\_29\_10\762940.D  
 Operator : DJR  
 Date Acquired : 29 Dec 2010 23:49  
 Sample Name : BUPRENORPHINE STD  
 Submitted by :  
 Vial Number : 31  
 AcquisitionMeth: WSCREEN  
 Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90  
                   C:\DATABASE\PMW\_TOX2.L Minimum Quality: 90  
                   C:\DATABASE\NIST98.L

| PK# | RT    | Library/ID                          | CAS#         | Qual |
|-----|-------|-------------------------------------|--------------|------|
| 1   | 17.21 | C:\DATABASE\NIST98.L                |              |      |
|     |       | 6,14-Ethenomorphinan-7-methanol, 17 | 052485-79-7  | 96   |
|     |       | 6,14-Ethenomorphinan-7-methanol, 17 | 052485-79-7  | 83   |
|     |       | Anthiaergosta-5,7,9,22-tetraene     | 1000213-42-2 | 50   |

